PIONEER
The Art of Entertainment

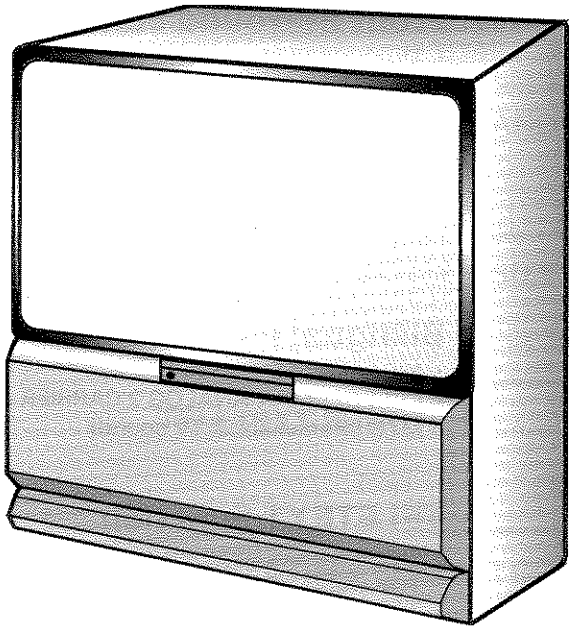
SPARE PARTS MASTER

Projection Colour Television

Hi-Fi Wide Projection Display

SD-T50W1/SL
SD-T43W1/SL

NTSC/PAL/SECAM



Operating and Safety Instructions

Read and understand these 'Operating and Safety Instructions' before operating your monitor.
Follow the 'IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS' section and all the warnings on the product.

Thank you for purchasing this PIONEER Projection Monitor Receiver.
Please read the precautionary instructions enclosed with these operating instructions please do so before proceeding.
After learning how to operate the Projection Monitor, be sure to keep this manual handy for future reference.

In this manual, we refer to the 'Projection colour television', as the 'TV'.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground should be connected to the grounding system of the building, as close to the point of cable entry as practical.

The following symbols are found in this manual and on the labels on the product. They alert the operators and service personnel of this equipment to potentially dangerous conditions.

⚠WARNING
This symbol refers to a hazard or unsafe practice which can result in serve personal injury or death.

⚠CAUTION
This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

⃠ This symbol indicates an action that is prohibited.

NOTICE ON ADVERSE EFFECTS ON THE TV TUBE

When playing TV games, operating computers or displaying still pictures with your TV sets, be sure to keep in mind the following points;

1. **Select the 'SOFT BRIGHT' mode. (Refer to page 25 of the Operating Instructions)**
2. **Do not use your TV set for more than two hours.**
3. **Watch normal TV broadcast's for three times longer than the time of playing TV games, operating computers or displaying still pictures.**

Still patterns can scar the Monitor causing performance damage to the CRT.

IMPORTANT NOTICE

WARNING: TO REDUCE THE RISK OF THE FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO WET LOCATIONS.

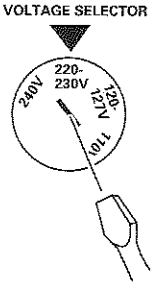
The model number and the serial number of this TV are located on the rear panel.
Please write the serial number on the enclosed warranty card and keep it in a safe place for future reference.
Note:
There are no user-serviceable parts inside the Projection monitor.

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

LINE VOLTAGE SELECTOR SWITCH

The line voltage selector switch is on the rear panel. Check that it is set properly before plugging the power cord into the AC wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows.

1. Use a medium-size screwdriver.
2. Insert the screwdriver into the groove on the voltage selector, and adjust to the voltage value of your area.



IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS

- Read all of these instructions.
- Keep these instructions for later use.
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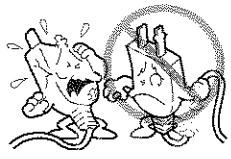
FOR YOUR PERSONAL SAFETY

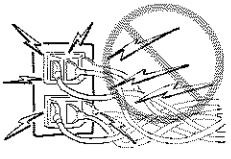
1. This TV is equipped with a polarized alternating current line plug (a plug having one blade wider than the other).
   This plug will fit into the power outlet only one way. This is a safety feature.
   If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

2. If the power cord or plug becomes damaged or frayed, unplug this TV from the wall outlet and refer to qualified service personnel for servicing.



3. Do not overload wall outlets and extension cords as this can result in fire or electrical shock.



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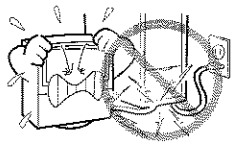
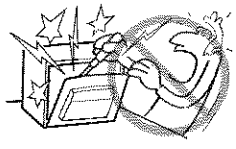
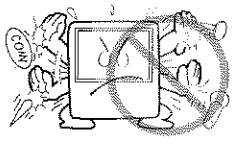


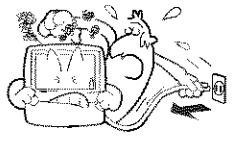
5. Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.



6. Never push the objects of any kind into this TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.



7. If the TV has been dropped or the cabinet has been damaged, unplug this TV from the wall outlet and refer to qualified service personnel for servicing.



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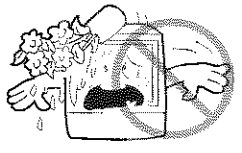

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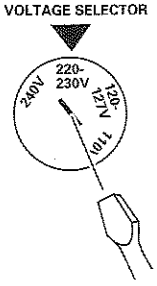

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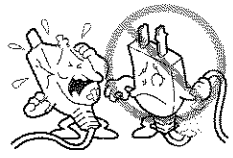

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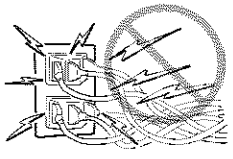

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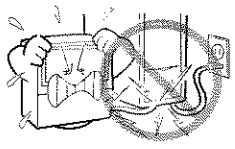

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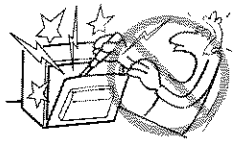

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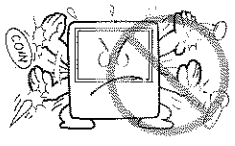

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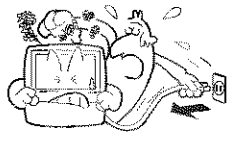

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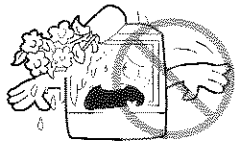
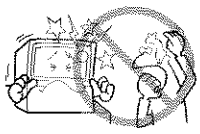
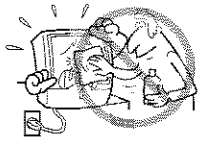


9. Do not subject your TV to impact of any kind. Be particularly careful not to damage the screen surface.



10. Unplug the TV from the wall outlet before cleaning. Do not use liquid cleaners or spray-type cleaners. Use a damp cloth for cleaning.

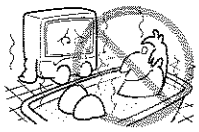


11-1. Do not place this TV on an unstable, uneven or an inclined location. The TV may overturn, causing serious injury (to a person), and serious damage to the appliance.

11-2. Be careful when placing the TV on a cart to move it. Quick stops, excessive force, and uneven surfaces may cause the TV and cart to overturn.

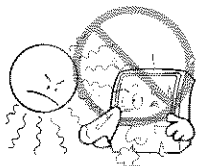
PROTECTION AND LOCATION OF YOUR TV

12. • Do not use the TV near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

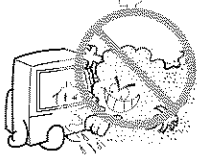


• Never expose the TV to rain water.
If the TV has been exposed to rain or water, unplug the TV from the wall outlet and refer servicing to qualified service personnel.

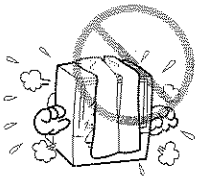
13. Choose a place where light (artificial or sunlight) does not shine directly on the screen.

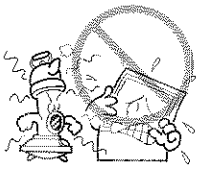


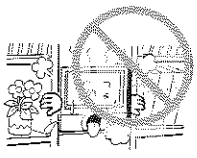
14. Avoid dusty places since the build-up of dust inside the TV's chassis may result in the malfunctioning, when high humidity persists.



15. • The TV has slots, or openings in the cabinet for ventilation purpose to ensure the reliable operation of the TV, and to protect it from overheating. These openings must not be blocked or covered.
• Never cover the slots or openings with cloth or other material.
• Never block the bottom ventilation slots of the TV by placing it on a bed, sofa, rug, etc.
• Never place the TV near or over a radiator or heat register.
• Never place the TV in a built-in enclosure such as a bookcase, unless proper ventilation is provided.







16. If an outside antenna is connected through other equipment, be sure the antenna system is grounded so as to provide protection against voltage surges and built-up static charges. In the U. S. A. 's section 810 of the National Electrical Code, ANSI/NFPA 70, provides information on proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

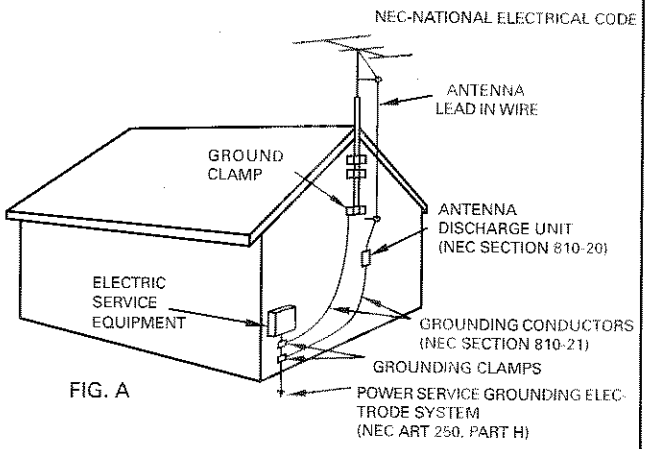
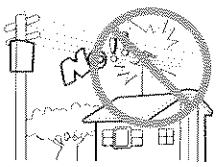

NEC-NATIONAL ELECTRICAL CODE
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUNDING CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

FIG. A

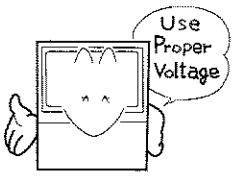
EXAMPLE OF ANTENNA GROUNDING IN NATIONAL ELECTRICAL CODE INSTRUCTIONS

17. An outside antenna system should not be located in the vicinity of overhead power lines/ electric lights or power circuits, or where it can fall onto such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep it from touching such power lines or circuits as contact with them might be fatal.

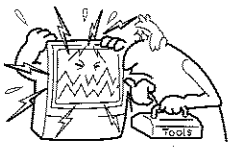


OPERATION OF YOUR TV

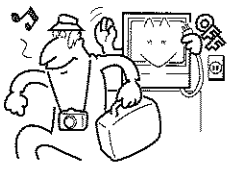
19. The TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your dealer or local power company.



20. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, unplug it from the wall outlet and refer to qualified service personnel for servicing. Do not adjust other controls than those described in this manual. Improper adjustments may result in damage and will often require extensive work by a qualified technician to restore the Monitor to normal operation.



21. If your TV is to remain unused for a period of time, for instance, when you go on a holiday, turn the TV 'off' and unplug it from the wall outlet.

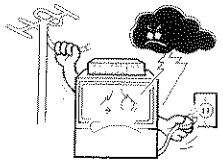


IF THE TV DOES NOT OPERATE PROPERLY

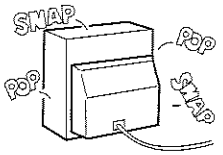
22. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the TV and call your dealer or service technician.

23. Whenever the TV is damaged or fails, or there is a distinct change in performance, unplug the TV and have it checked by a professional service technician.

18. For added protection during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the TV from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.



24. It is normal for some TV to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the TV and consult your dealer or service technician.

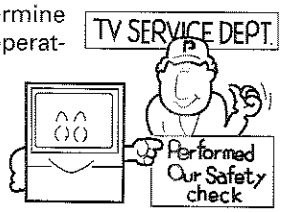


FOR SERVICING AND MODIFICATION

25. Do not use attachments not recommended by the TV's manufacturer as they may result in the risk of fire, electrical shock or injury to persons.

26. When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electrical shock, or injury.

27. Upon completion of any service or repairs to the TV, ask the service technician to perform routine safety checks to determine that the TV is in a safe operating condition.



INSTALLING THE TV

CARE OF YOUR TV

DO NOT:

- Do not use strong cleansers, solvents, polishes, or chemically treated cloths to clean the screen or cabinet.
- Do not touch or scratch the screen.
- Do not fasten or place rubber or vinyl items on the TV.
- Do not stick adhesive tape onto the TV.
- Do not put any object on the TV.

DO:

- Use a soft cloth to dust the screen and cabinet.
- Handle the screen with care to avoid scratches or damages.
- Ask your dealer or a Pioneer authorized service center to clean the interior of the TV in your area if the picture brightness is too low even with the max level. This may be caused by dust buildup inside.

INSTALLATION PRECAUTIONS:

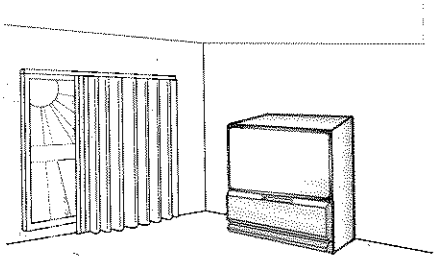
Place of installation

- While the TV is operating, it is cooled by airflow through ventilation holes in the rear and bottom. Therefore, avoid placing it in a location where the cooling airflow is hindered (e. g. against a wall).
- Avoid places subject to extremely high temperatures or humidity, or to temperatures of 5° C or lower. Also avoid dusty places.
- If setting the TV on a floor made of soft material, make sure that the floor will not damaged by the weight of the TV.

Cover shiny surfaces (floor and walls) with non reflective materials (carpet, rugs, wallpaper, etc.).

Adjust room illumination

Excessively bright or dim lighting may strain your eyes. Draw the curtains if necessary to shut out direct sunlight.



PRELIMINARY INSTRUCTIONS

Where to put the TV

LIGHTING

Bright light or direct sunlight will dull the picture. Position the TV so that the screen faces away from windows.

Optimum viewing distance

3 to 7 meters is the range recommended for viewing comfort.

OPERATING PRECAUTIONS

Keep away from magnetic fields

The picture may be distorted if strong magnetic fields are nearby. External speakers should be set at least 60 cm away from the TV. Electric fans and other motor driven appliances and toys may also be sources of magnetism.

When moving the TV

Pull out the plug and move the TV carefully. Be particularly careful not to bump or scratch the screen. To avoid damage to the caster wheels, you may need to lift the TV when going over irregular surfaces.

Install in a flat, steady place

Do not put the TV on a surface that is titled, unsteady or prone to shake or vibrate. A shaky or slanted platform is dangerous.

Condensation and picture blurring

- If the room temperature suddenly rises (or if the TV is moved from a cool place to a hot place), condensation may form on the lenses resulting in picture distortion or color fading. If this occurs, simply wait a while (with the power switch ON) and the condensation will disappear.
- A gradual change in temperature can prevent condensation from forming.

Note on still picture

- Do not projects still pictures on your TV for a long period of time. (For example: when using your TV for video games, monitoring your personal computer, or while playing back video/discs). This can adversely affect the TV's CRT. If this cannot be avoided, reduce the brightness and contrast of the picture in order to minimize any damage which may occur.

ASSEMBLING THE VCR STAND

By assembling the VCR stand at the rear of the SD-T43W1/SL, the VCR can be placed on top of the TV.
The SD-T50W1/SL is not provided with a VCR stand.
To prevent accidents caused by falling objects such as the VCR, do not place the VCR, etc. on the SD-T50W1/SL.

1 Remove the two screws at the edge of the VCR stand.

2 Remove the hook, and lift up the VCR stand until it becomes horizontal.

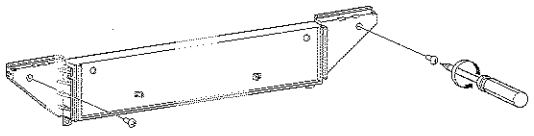
3 Bend the left and right supports inwards and insert into the VCR stand.

4 Secure the hooks of the supports.
* Do not remove the hooks once they have been secured, or they may damage.

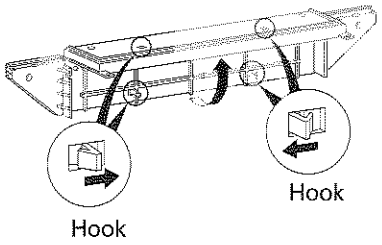
5 Secure the screws removed at step 1.

6 Pass the band through the support to secure the VCR in place.

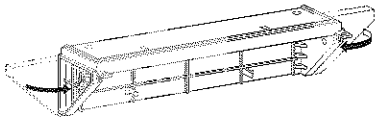
1



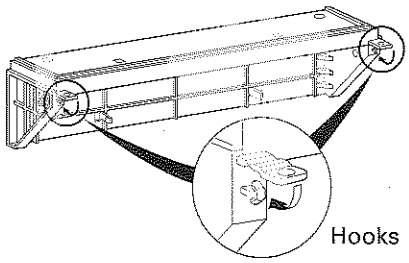
2



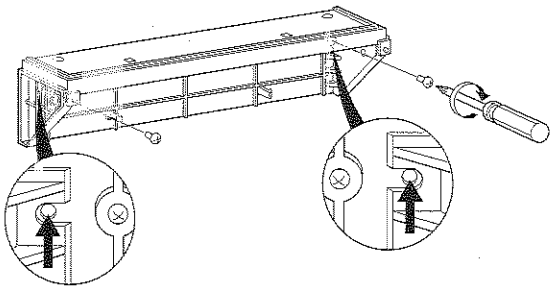
3



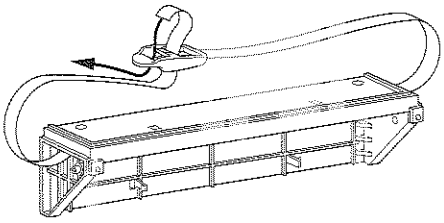
4



5



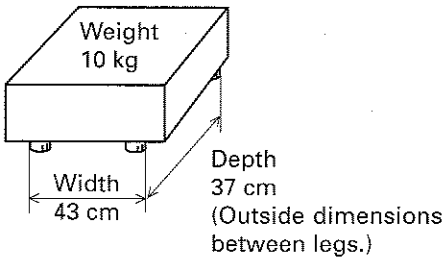
6



⚠ CAUTION

Important safety information about your Projection TV VCR Stand:

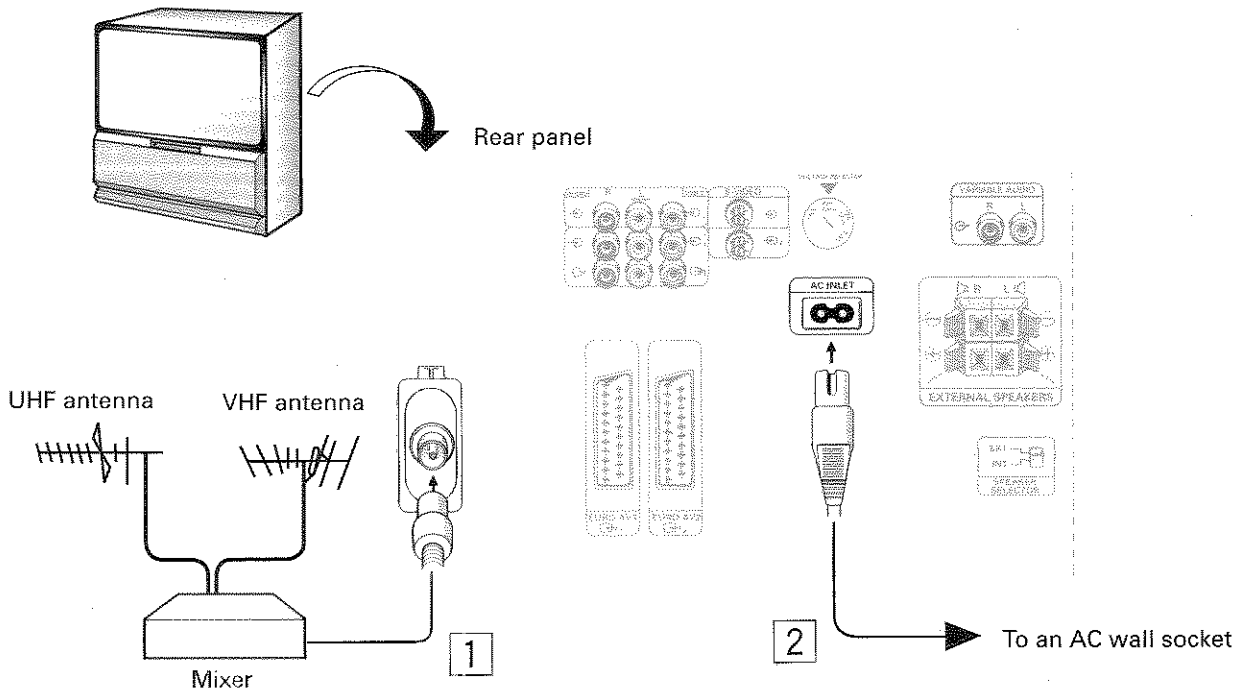
- Do not place a VCR on the VCR Stand which is larger or heavier than the dimensions or weight shown below:



- Do not lean on the VCR Stand.
- Secure the VCR firmly to the VCR Stand using the provided band.
- Always remove the VCR from the VCR Stand before attempting to move the Projection TV.

BEFORE USE

This manual's illustrations show model SD-T50W1/SL.



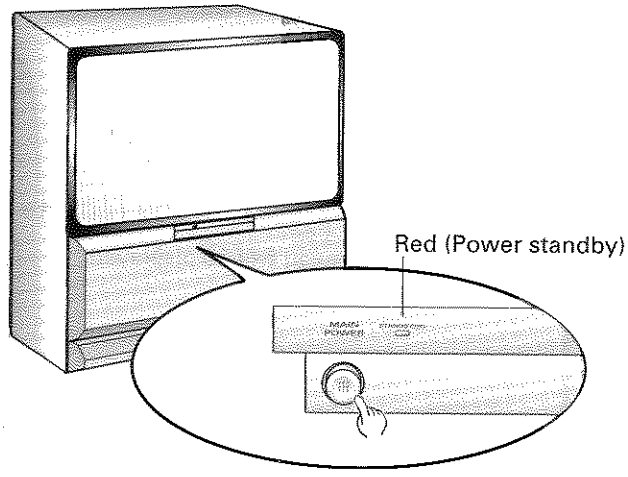
1 Connect the antenna cable to the TV.

2 Connect the power cord.

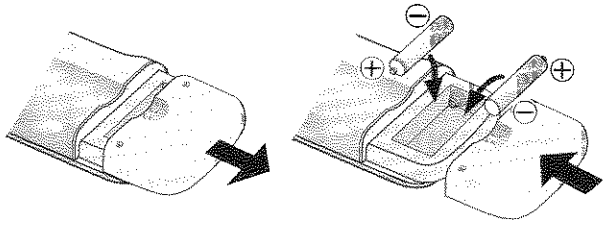
Two types of power cords are provided.
Select the one suitable for the shape of your AC wall socket.

3 Press the MAIN POWER switch of the TV.

The indicator lights up in red.



4 Insert batteries (AAA/R03) into the remote control unit.



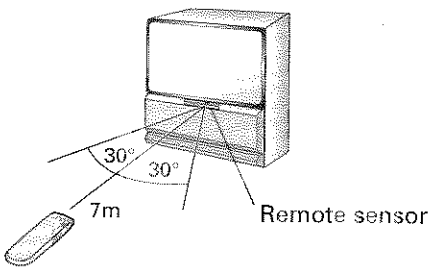
CAUTION

Incorrect use of batteries may lead to electrolyte leakage or damage.
Follow the precautions below :

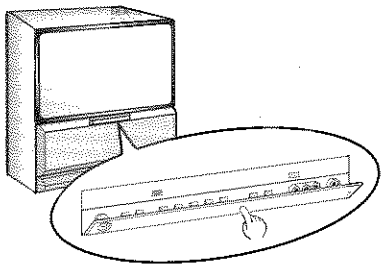
A: Never mix new and used batteries.

B: Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

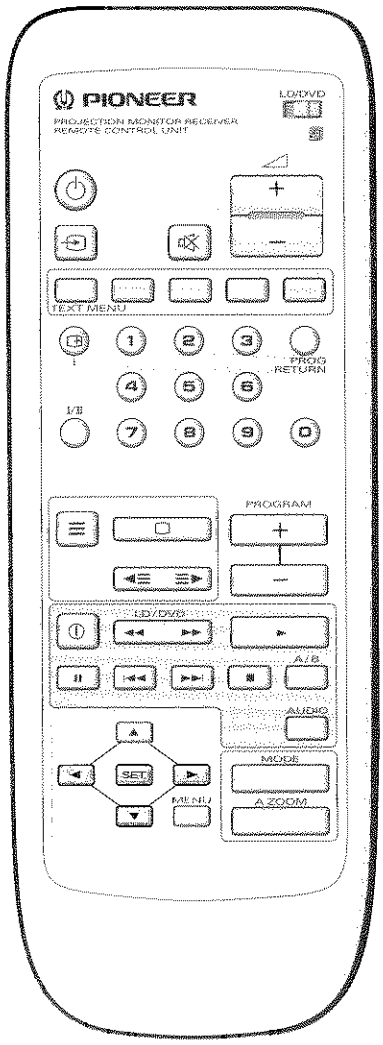
Remote control operation range



5 Select the desired language on the control menu.

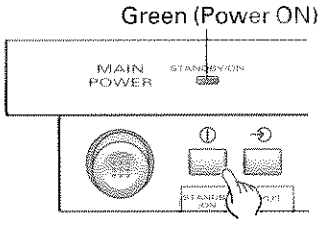


The door will open when pushed lightly.



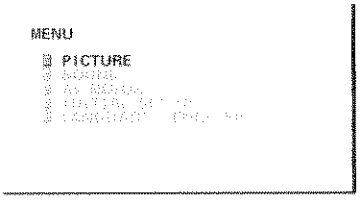
1 Press ⏻ (STANDBY/ON) on the TV.

The indicator turns green.

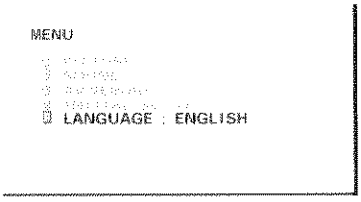


2 Press MENU on the remote control unit.

The menu will be displayed.



3 Select "LANGUAGE" using ▼ on the remote control unit.

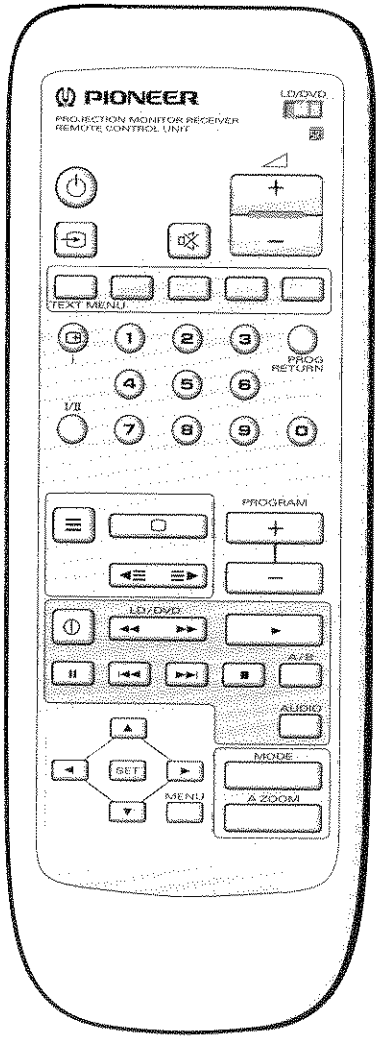


4 Press SET to select the desired language.

The language changes in the following order.
ENGLISH → FRANCAIS → DEUTSCH → ITALIANO

5 Press MENU to turn off the menu.

6 Preset broadcasting stations on program numbers.



Up to 64 broadcasting stations can be preset.

1 Press [⏎] and switch to TV.

When switched to TV, the program number will be displayed.

BBC PR 1
STEREO

ZOOM

The mode will switch as follows.

TV → AV-1 → AV-2 → AV-3 → AV-4
↑ AV-F (Front input) ←

2 Press MENU.

MENU
PICTURE

3 Select "INITIAL SET UP" using [▼] and press [SET].

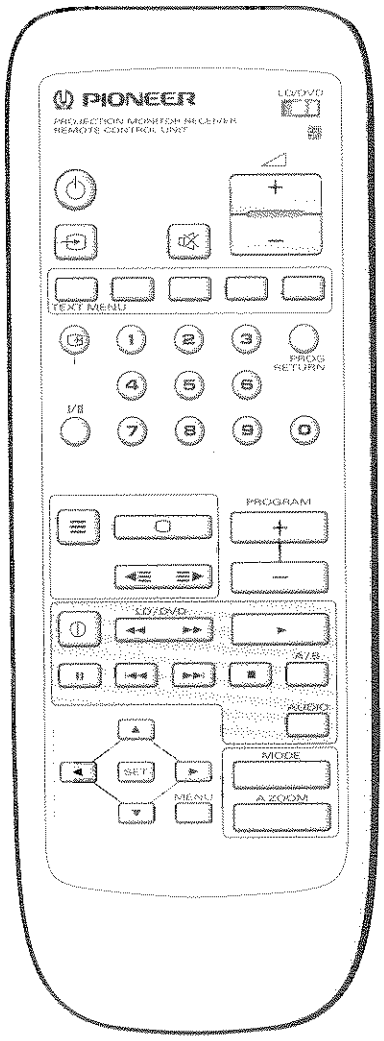
MENU
INITIAL SET UP

4 Select "STATIONS PRESET" and press [SET].

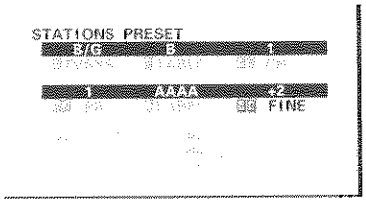
INITIAL SET UP
STATIONS PRESET

↓

STATIONS PRESET
B/G B 1
TVSYS
1 AAAA 0



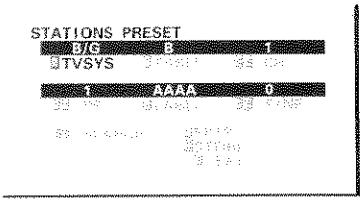
NOTE:
If the reception is poor, move the cursor to "FINE" and press [SET], and finely adjust the reception.
The adjustment step will be displayed.



5 Select a TV system standard (Broadcasting country).

Move the cursor to "TV SYS" using [▲], [▼], [◄] and [►], and select the TV system by pressing [SET].

B/G → L → L' → I → D/K → M



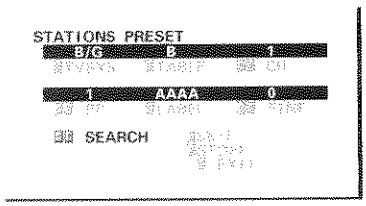
6 Receive a broadcasting station.

There are two ways to receive stations.

(1) Automatic search
(2) Direct channel select

(1) Automatic search

Move the cursor to "SEARCH" and press [SET].
The unit will automatically search for a station which can be received in the + or – direction from the current frequency.
When a station is received, the station number (CH) and channel table will be displayed.

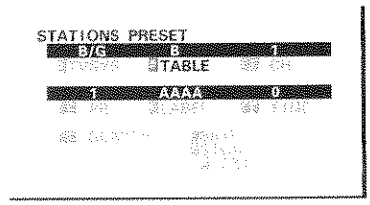


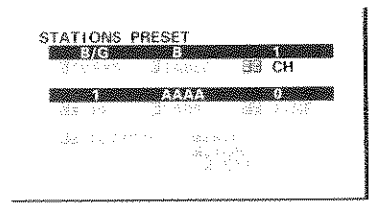
(2) Direct channel select

① Move the cursor to the "TABLE" and press [SET]. The desired channel table can be selected. (Refer to "TV CHANNEL SELECTION" on pages 43 to 47.)

② Select a broadcasting station. Move the cursor to "CH" and press [SET]. Or move the cursor to "CH" and press the number button.

(Example)
CH7 ..... Press ⑦
(Or press ⓪ and ⑦ within 2 seconds.)
CH57 .... Press ⑤ and ⑦ within 2 seconds.





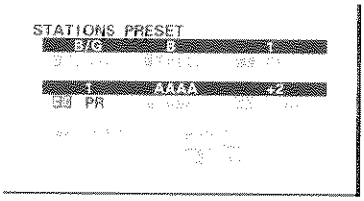
7 Select the program number (1 to 64).

1. Move the cursor to "PR".
2. Press [SET] and select the program number, or press the number button.

(Example)

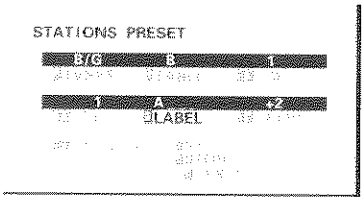
CH7 ..... Press 7
(Or press 0 and 7 within 2 seconds.)

CH57 .... Press 5 and 7 within 2 seconds.



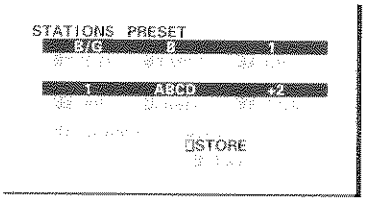
8 Label the program number by giving it a broad casting name, etc.

① Move the cursor to "LABEL" and press [SET].
② Press [◄] or [►], select a letter for the label, and press [SET].
③ Repeat step 2 to continue to input letters (Max. 4 letters).



9 After setting, select "STORE", and press [SET].

The selected channel is preset.
The highlighted characters turns yellow momentarily, indicating that they have been stored.
The characters then turn white again, and the PR No. will have increased by one.

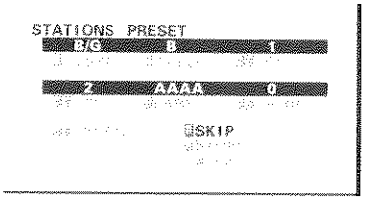


10 Repeat steps 6 to 9 to preset the remaining stations.

11 Set SKIP for program numbers not used.

This enables program numbers not used for receiving broadcasting stations to be skipped using PROGRAM +/– button.

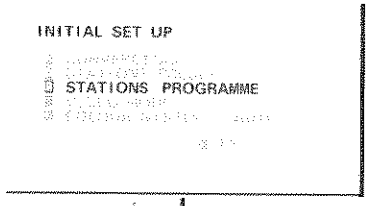
① Refer to step 7, and select the program number not used.
② Move the cursor to "SKIP" and press [SET].
The character in black turns to red. (When pressed another time, it turns to white, indicating that SKIP has been turned OFF.)
③ Move the cursor to "STORE" and press [SET].

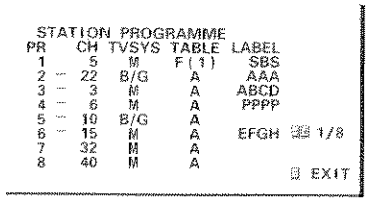


12 After presetting, press [MENU] to turn off the menu.

To see the list of channels preset.

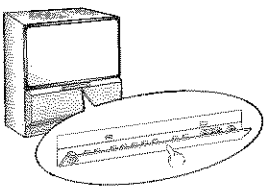
1. Press [MENU] on the remote control unit.
2. Select "INITIAL SET UP" using [▼], and press [SET].
3. Select "STATIONS PROGRAMME", and press [SET].





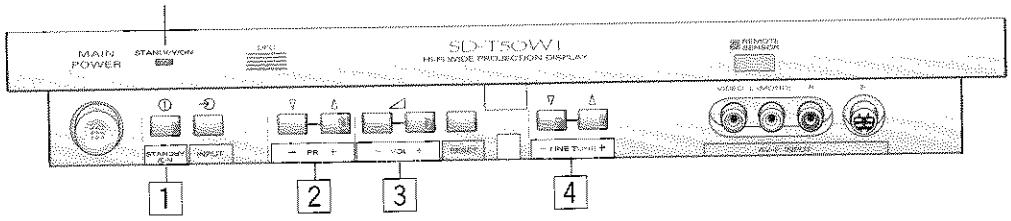
The channels preset and their labels will be listed.
To see the previous or next program numbers, move the cursor to [-] or [+] and press [SET].

TO WATCH TV



The door will open when pushed lightly.

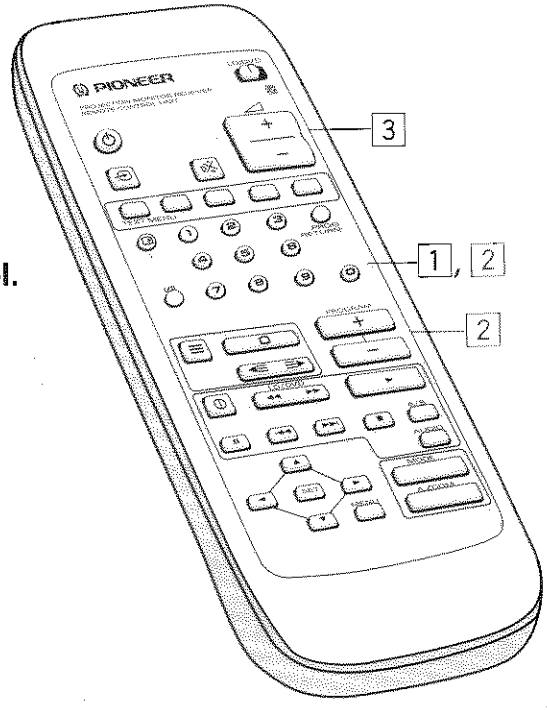
Red: Power standby / Green: Power ON



1 To turn ON the power of the TV.

Press ⏻ (STANDBY/ON) on the TV.
Or, press one of the number buttons on the remote control unit.

The STANDBY/ON indicator turns green.



2 Select the program number of the desired channel.

Press the number buttons.

Example: PR 9 ..... (9)
(Or press (0) and (9) within 2 seconds.)

PR 59 ... Press (5) and (9) within 2 seconds
PR 20 ... Press (2) and (0) within 2 seconds

Or, select the program number using PROGRAM +/–.

3 Adjust the volume.

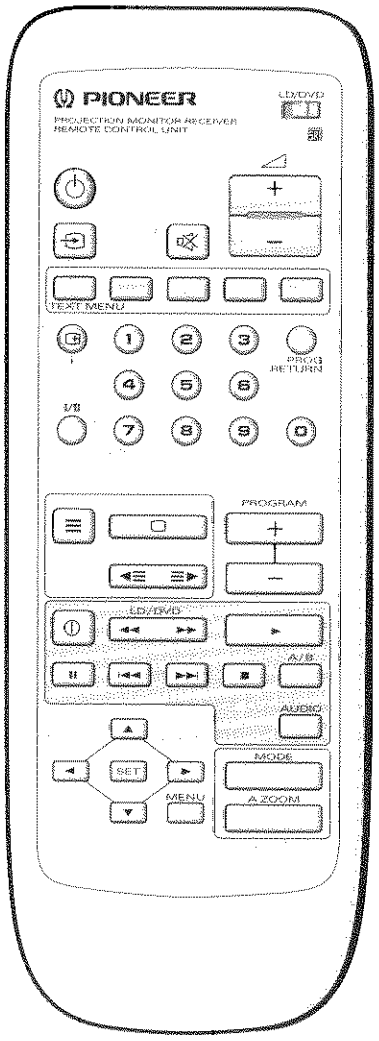
Press ◢ +/–.

4 Fine Tuning

If the reception is poor, while watching the TV, press FINE TUNE +/– on the TV to finely tune in.

PR 1
CH 10
FINE TUNE +3

NOTE:
Because the adjustments made by fine tuning are not registered, they will be canceled when the program number is changed.
To register the adjustments made, perform "Fine Tuning" step in the "STATION PRESET" procedure on page 13.



To turn OFF the power temporarily

Press ⏻ on the TV or ⏻ on the remote control unit.

To turn OFF the power completely

Press the MAIN POWER on the TV.

Auto power off function

If no TV program is received for more than 8 minutes, the power will automatically be set into the standby state, and the STANDBY/ON indicator will turn from green to red.

• To watch two programs alternately.

Press PROG RETURN.

Each time it is pressed, the current program and the previous program will be switched alternately.

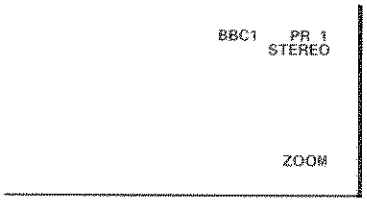
• To mute the sound temporarily

Press (Mute).

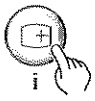
To recover the sound, press it again.
Muting will automatically be released in 8 minutes and the volume will be set to 0 (minimum).

• To display information

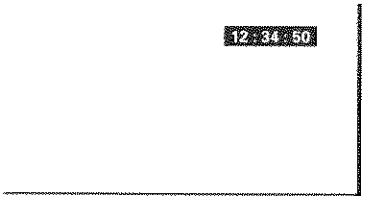
When (information) is pressed, the current input source, screen size, sound mode, etc. will be displayed for about 4 seconds.



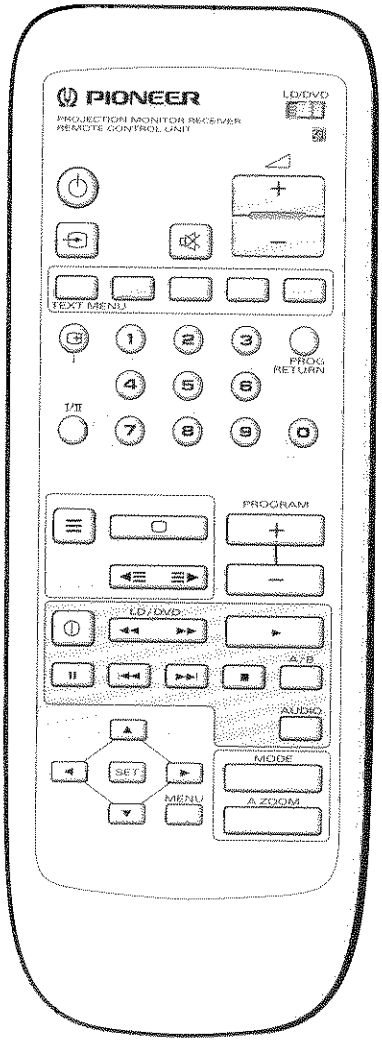
When is pressed twice while TELETEXT program is received, the clock appears. (When pressed another time, the display will return to the previous information screen.)



(Press twice)

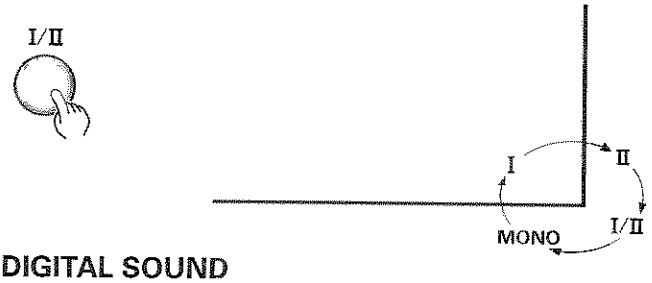


To receive stereo and bilingual broadcasting programs



When stereo or bilingual-programs are received, the sound mode will be displayed. (for about 4 seconds).

When bilingual-programs are received, the sound mode can be switched as follows by pressing I/II.



• NICAM DIGITAL SOUND

(Only when the TV system is B/G, I or L)

Display on Screen	Sound mode
DIGITAL STEREO	: Digital stereo sound
DIGITAL	: Digital monaural sound
DIGITAL I [I]	: Main bilingual-broadcast sound
DIGITAL II [II]	: Sub bilingual-broadcast sound
DIGITAL I/II [I/II]	: Main and sub bilingual-broadcast sounds (L ch :main, R ch :sub languages)

NOTE:

If the NICAM digital signal from the broadcast station is weak, the sound may be noisy.

In such cases, press I/II and switch to MONO (monaural) to reduce noise.

• GERMAN ANALOG 2 CARRIER SOUND

(Only when the TV system is B/G)

Display on Screen	Sound mode
STEREO	: Stereo sound
DUAL I [I]	: Main bilingual-broadcast sound
DIAL II [II]	: Sub bilingual-broadcast sound
DUAL I/II [I/II]	: Main and sub bilingual-broadcast sounds (L ch :main, R ch :sub languages)

NOTE:

If the stereo signal from the broadcast station is weak, the sound may be noisy.

In such cases, press I/II and switch to MONO (monaural) to reduce noise.

• MTS (Multichannel TV sound)

(Only when the TV system is M)

Display on Screen	Sound mode
STEREO	: Stereo sound
MAIN [I]	: Main bilingual-broadcast sound
SAP* [II]	: Sub bilingual-broadcast sound
MAIN/SAP [I/II]	: Main and sub bilingual-broadcast sounds (Lch : Main, Rch : SAP)
ST (SAP) [I]	: Stereo sound (Currently receiving SAP broadcast)
SAP (ST) [II]	: Sub bilingual-broadcast sound(Currently receiving stereo broadcast)
MAIN/SAP (ST) [I/II]	: Main and sub bilingual-broadcast sounds (Lch : Main, Rch : SAP /Currently receiving stereo broadcast)

*SAP :Second audio program

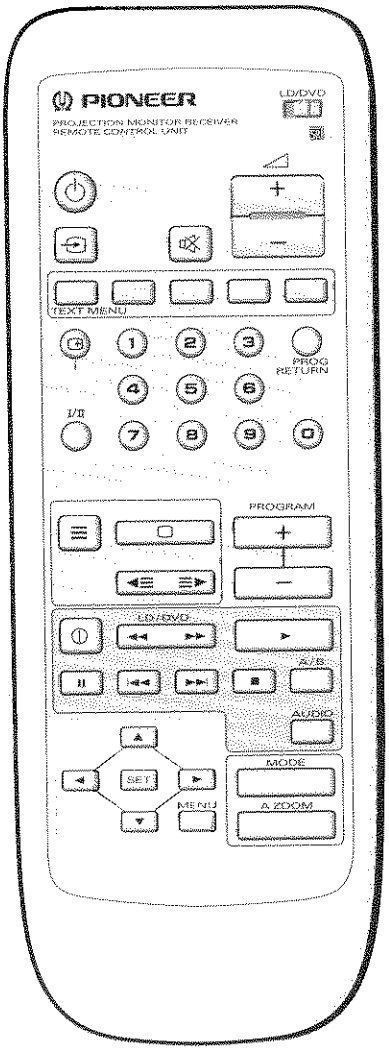
NOTES:

- *If the stereo signal from the broadcast station is weak, the sound may be noisy. In such cases, press* *and switch to MONO (monaural) to reduce the noise.*

- *Broadcast stereo and SAP reception operate in accordance with the Broadcast Television Systems Committee (BTSC) standard only. Stereo audio transmission from CATV (Cable television) systems can vary from area and may not be compatible with the BTSC standards. Check with your local cable company for specific compatibility requirements.*

TO ADJUST PICTURE AND SOUND QUALITY

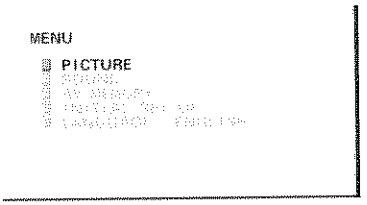
To adjust the picture quality



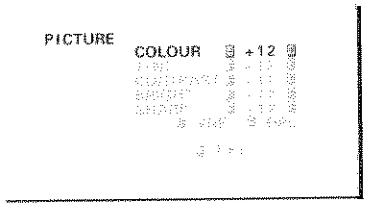
COLOUR, TINT, CONTRAST, BRIGHT (brightness), and SHARP (sharpness) can be adjusted.

1 Press MENU on the remote control unit.

2 Select "PICTURE", and press SET.



3 Move the cursor to + or − of the item to be adjusted.



4 Press SET and adjust the picture quality.

The adjusting range is –32 to +31.

5 After adjusting, press MENU to turn off the menu.

NOTES:

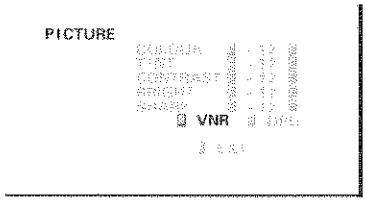
- *TINT can be adjusted only when the input signal colour system (page 41) is NTSC or 4.43NTSC.*
- *When DPO (page 21) is on, COLOUR, CONTRAST, and BRIGHT cannot be adjusted.*
- *When SOFT BRIGHT (page 25) is ON, CONTRAST cannot be adjusted.*

• To reduce picture noises such as white speckles (VNR)

Picture noises (white speckles, etc.) can be reduced by turning on VNR (Video Noise Reduction).

Select "VNR" on the PICTURE menu, and press [SET] to turn it ON.
The character color changes as follows.

ON (yellow characters)
↕
OFF (white characters)

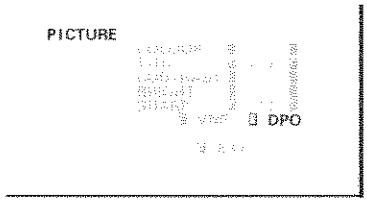


• To automatically adjust the picture quality according to room brightness (DPO)

The DPO (Dynamic Picture Optimizer) sensor at the front of the unit detects the brightness of the room, and automatically adjusts COLOUR, CONTRAST, and BRIGHT (brightness).

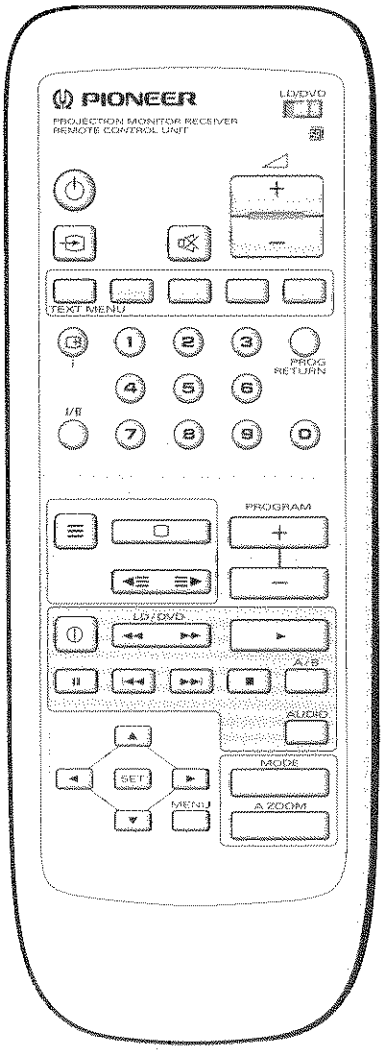
Select "DPO" on the PICTURE menu, and press [SET] to turn it ON.
The character color changes as follows.

ON (yellow characters)
↕
OFF (white characters)



NOTE:
When SOFT BRIGHT (page 25) is on, DPO cannot be operated.

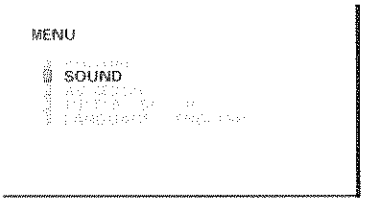
To adjust the sound quality



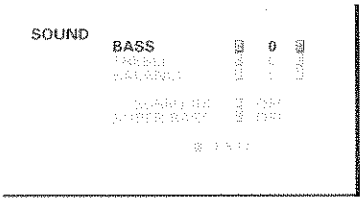
BASS, TREBLE, and BALANCE can be adjusted.

1 Press MENU on the remote control unit.

2 Select "SOUND" using ▼, and press SET.



3 Move the cursor to +, − or ▲ of the item to be adjusted.



4 Press SET and adjust the sound quality.

<Adjustable range>
BASS, TREBLE :–32 to +31
BALANCE :L (Left) 32 to R (Right) 31

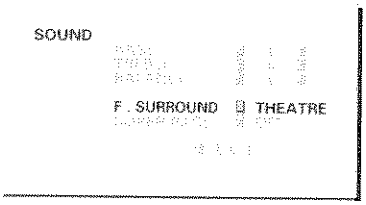
5 After adjusting, press MENU to turn off the menu.

• Select the desired FRONT SURROUND mode.

Three different modes, THEATRE, STADIUM and S.STEREO are available.

Select "F.SURROUND" on the SOUND menu, and press [SET] to set to the desired mode.

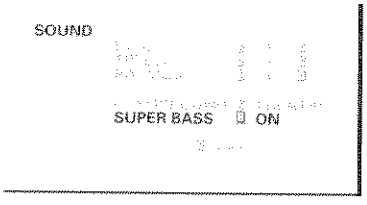
OFF
↓
THEATRE :
Effective for movies, and theatrical programs such as operas and ballets.
↓
STADIUM :
Effective for live programs from stadiums such as baseball and other sports.
↓
S.STEREO :
This function transforms monaural signals into simulated stereo sound. Use it when you wish to experience a sense of stereo presence when listening to monaural signal sources.



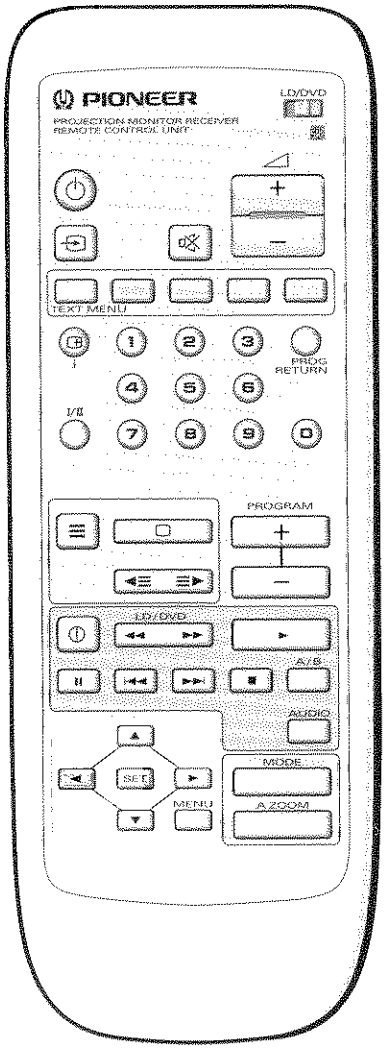
• Turn ON/OFF SUPER BASS

Use this function to enjoy powerful bass sounds.

Select "SUPER BASS" on the SOUND menu, and press [SET].



AV MEMORY



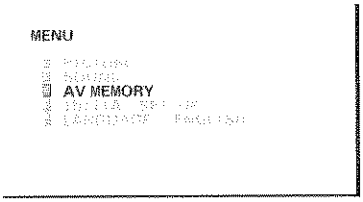
Use AV MEMORY to register the desired picture and sound quality.

- **To register the desired settings**

1 Set the desired picture and sound quality first. (page 20 to 23)

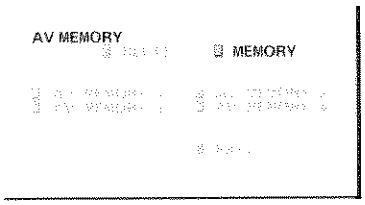
2 Press MENU on the remote control unit.

3 Select "AV MEMORY" using ▼, and press SET.



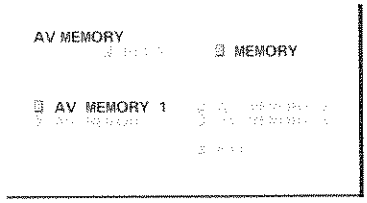
4 Select "MEMORY", and press SET.

The MEMORY characters turn yellow, indicating that the MEMORY mode has been set.



5 Select one of the AV MEMORY numbers from 1 to 4, and press SET.

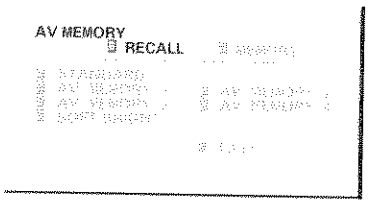
The picture and sound quality set at step 1 will be registered in the selected AV MEMORY.



• **To recall the AV MEMORY**

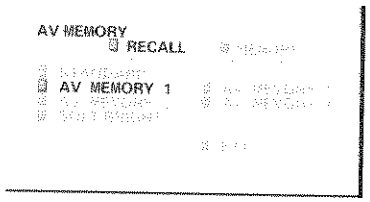
1 Select "RECALL" on the AV MEMORY menu, and press SET.

The RECALL characters turn yellow, indicating that the RECALL mode has been set.



2 Select the desired AV MEMORY number, and press SET.

The picture and sound quality registered in the AV MEMORY will be recalled.

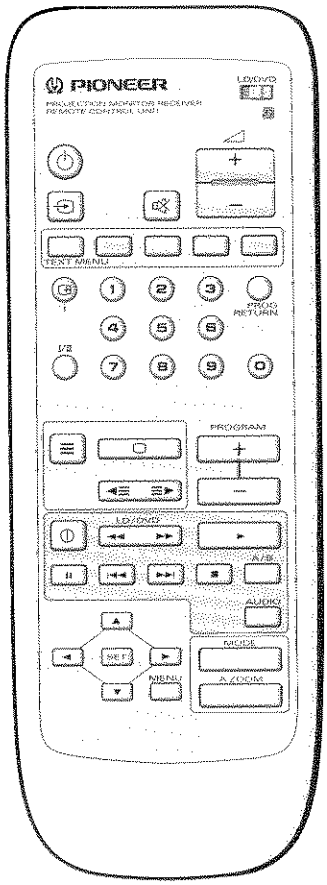


STANDARD
Use this function to return to the standard picture and sound quality.

SOFT BRIGHT
When using this unit for TV games or personal computers, or when playing back still images of laser discs, be sure to turn on SOFT BRIGHT to reduce deterioration of the internal CRTs.

TO CHANGE SCREEN SIZE

The screen size and range can be switched.
For example, change the screen size to display images fully on the whole screen using the WIDE function.



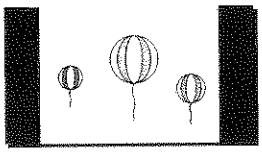
- This TV is provided with modes to deal with screens of various aspect ratios. It is recommended that programs and software be watched in the appropriate mode.

- When 4:3 images are fully displayed on a wide TV screen in the NATURAL WIDE mode, CINEMA WIDE mode, ZOOM mode, or FULL mode, some parts of the images may be chipped off or distorted.

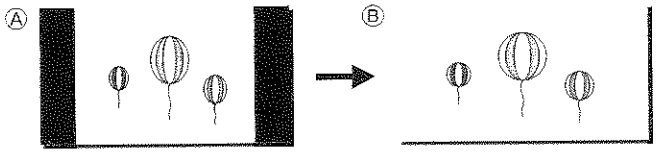
NOTE:
When a 16:9 format detectable device is connected to the AV-1 input terminal, the TV screen will automatically be set to FULL.

Press MODE and select the desired mode.

4:3 NORMAL
: For watching the usual TV programs (4:3 images) in the normal screen size.

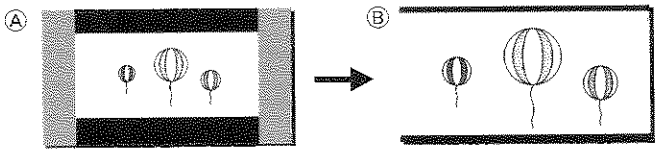


FULL
: To display the Ⓐ images as in Ⓑ.



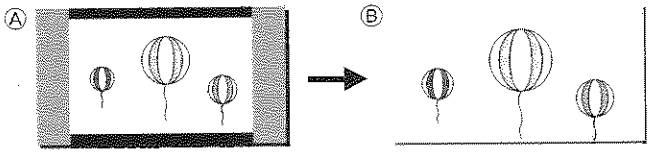
(4:3 NORMAL) (FULL)

ZOOM
: To display the Ⓐ images as in Ⓑ.



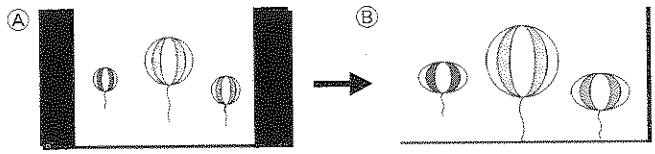
(4:3 NORMAL) (ZOOM)

CINEMA WIDE
: To display the Ⓐ images as in Ⓑ.



(4:3 NORMAL) (CINEMA WIDE)

NATURAL WIDE
: To display the Ⓐ images as in Ⓑ.



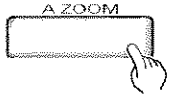
(4:3 NORMAL) (NATURAL WIDE)

NOTES:

- *The AUTO ZOOM function detects the brightness of the image and automatically switches the screen size to the appropriate size. Therefore, in case of dark images such as night scenes, it may not switch to the appropriate screen size. In such cases, turn the AUTO ZOOM off.*
- *For some LD and video software, some parts at the top and bottom of the screen may be chipped off or a black frame may appear.*
- *When a 16:9 format detectable device is connected to the AV-1 input terminal, the TV screen will automatically be set to FULL.*

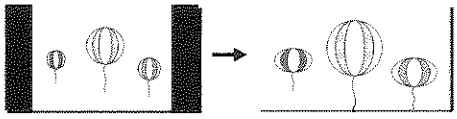
• To switch the screen size automatically

The screen size will automatically switch according to the picture size when A (Auto) ZOOM is pressed and turned ON.



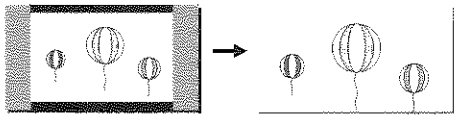
AUTO ZOOM ON

① (NATURAL WIDE)



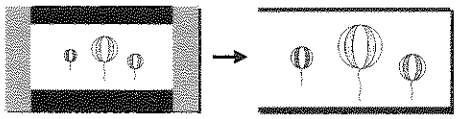
For the 4:3 images shown in ①, the mode will be switched to NATURAL WIDE.

② (CINEMA WIDE)



For images shown in ②, the mode will be switched to CINEMA WIDE.

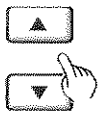
③ (ZOOM)



For images shown in ③, the mode will be switched to ZOOM.

• To adjust the screen position

In the CINEMA WIDE or ZOOM mode, the screen position can be adjusted to the top or bottom.



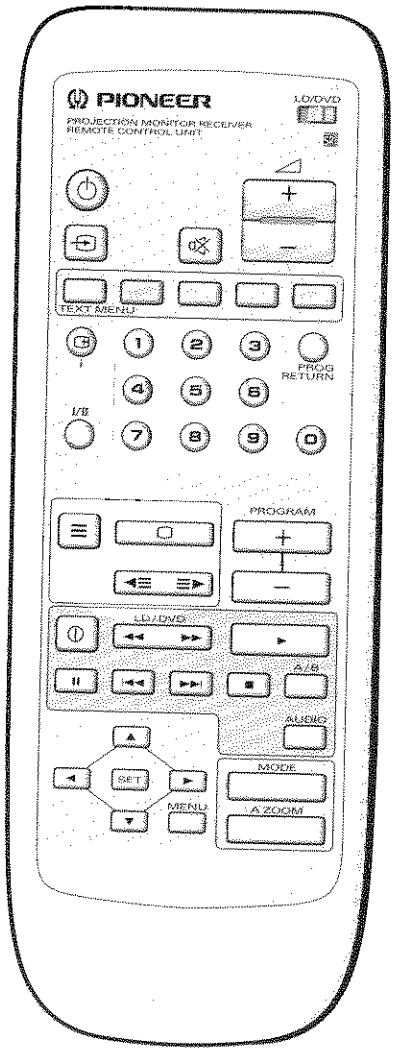
▲▼ V. POSITION
-11

<Adjustable range>

MODE \ COLOUR SYSTEM	NTSC	PAL/SECAM
CINEMA WIDE	–15 to +15	–18 to +18
ZOOM	–25 to +25	–30 to +30

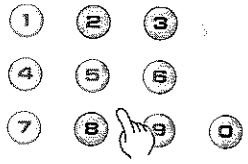
TELETEXT FUNCTION

To display TELETEXT



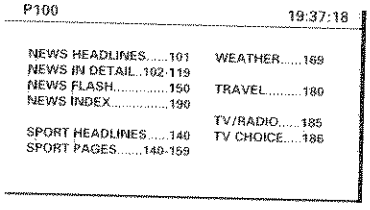
TELETEXT is an information service provided by broadcast stations together with the TV broadcast programs.
This function provides various information such as weather forecast, news, results of games, etc. any time.

1 Select a TV program providing TELETEXT.

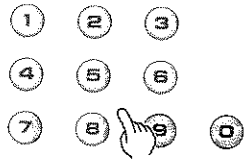


2 Press [≡].

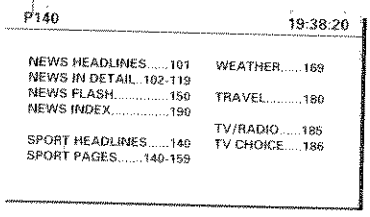
TELETEXT picture, usually the list of contents page (page 100) will be displayed.



3 Input the desired page number using number buttons.



Page number



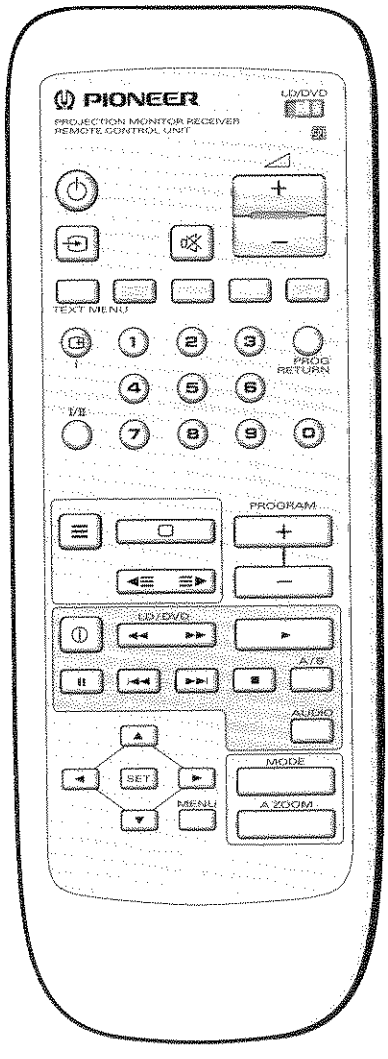
Or turn over the pages using [◁≡ ≡▷].

• To Return to the TV Program Again

Press [□].
TELETEXT disappears and the TV program is displayed again.

NOTE:
If the reception of TELETEXT is poor, it may not be displayed clearly.
To improve the reception, perform fine tuning (page 16).

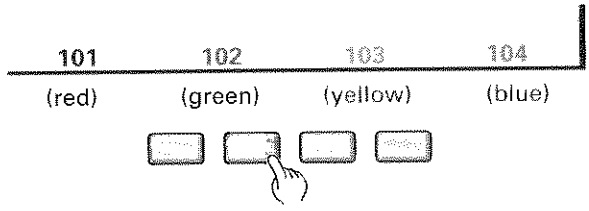
To Select Pages



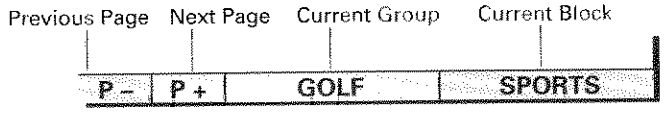
When the TELETEXT is of the TOP TEXT system or FASTEXT system, the desired page can be selected at the color menu on the screen.
Press the color button on the remote control unit corresponding to the color menu.

• FASTEXT System

Select the desired page using the color buttons on the remote control unit.



• TOP TEXT System

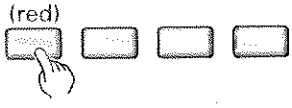


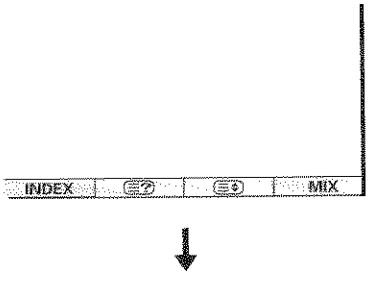
1 Press TEXT MENU

The color menu changes to TEXT MENU I (page 30).

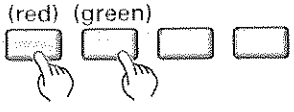
2 Select "INDEX" using the red button.

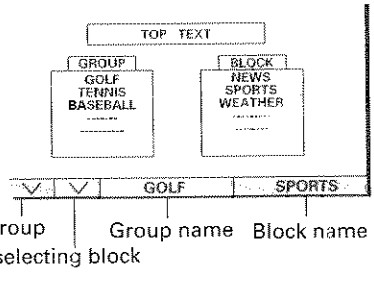
The TOP TEXT menu will be displayed.





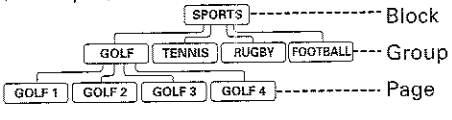
3 Select block and group item using the green and red buttons respectively.





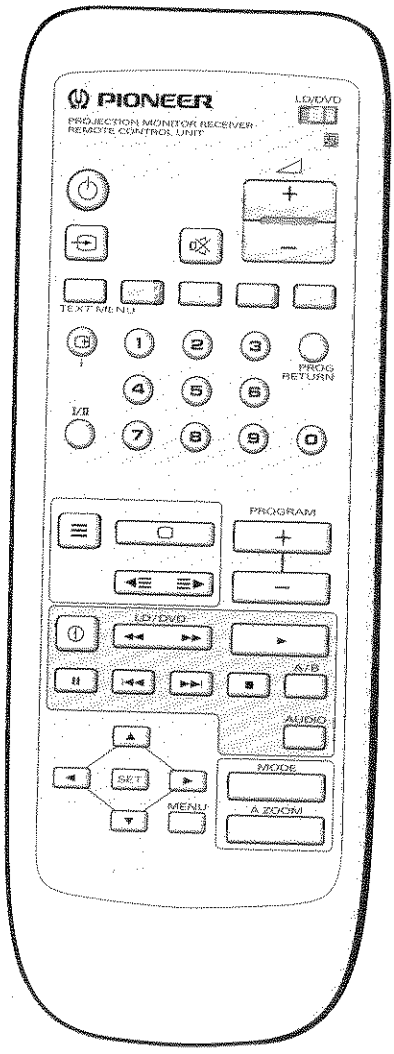
Each "Block" has its group item as shown below.
Select the block first and then the group.

(Example)

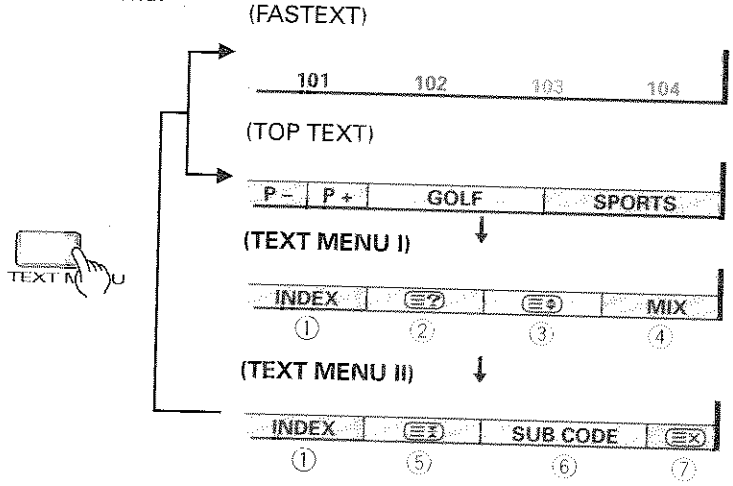


4 To view the contents of block, press the blue button. To view the contents of group, press the yellow button.

TOP TEXT/FASTEXT system – Other functions



Each time the TEXT MENU button on the remote control unit is pressed, the control menu will change as follows.
Use the color buttons on the remote control unit according to each item color on the menu.

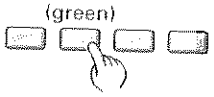


(TEXT MENU I)

① INDEX

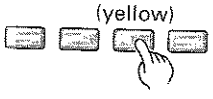
The TELETEXT contents and page numbers will be displayed. When TOP TEXT is set, the TOP TEXT menu will be displayed.

② Conceal



On some pages, some information such as answers to quizzes will be concealed.
Press (green button) to display concealed information.
Press another time to conceal again.

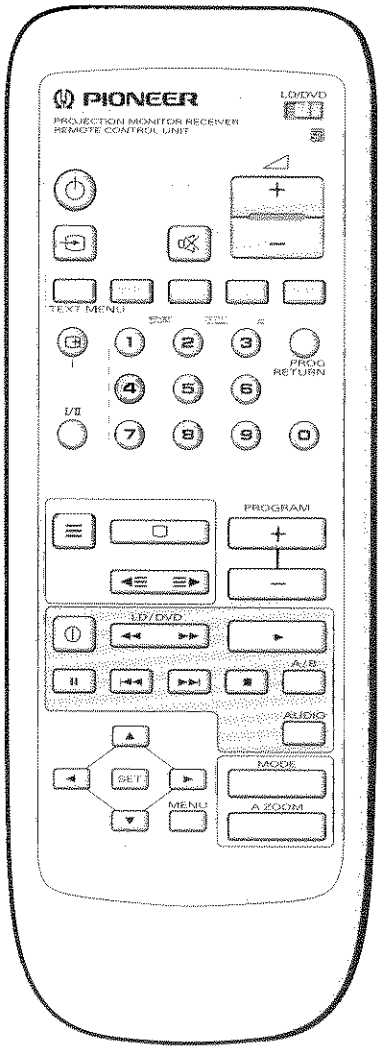
③ Double height



Enlarges the upper half of the screen (or lower half).
Each time (yellow button) is pressed, the screen will be enlarged as follows.
Upper half → Lower half → Standard

④ MIX

When MIX is pressed, the TELETEXT background will change to the TV screen.
When is pressed, the background will change to black again.



(TEXT MENU II)

① INDEX

(red)

The TELETEXT contents and page numbers will be displayed. When TOP TEXT is set, the TOP TEXT menu will be displayed.

⑤ Hold

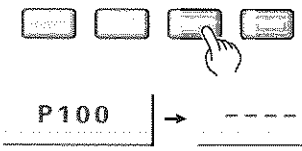
(green)

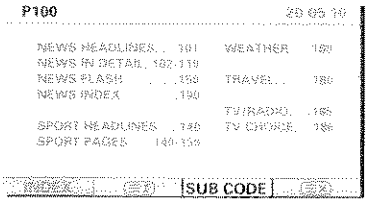
When several sub pages are automatically switched and displayed, this hold function enables a certain sub page to be stopped and viewed.
When (green button) is pressed, the sub page being displayed will be kept still.
When is pressed another time, hold will be canceled.

⑥ SUB CODE

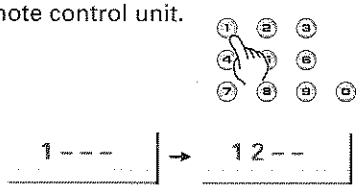
When several sub pages are being transmitted, inputting a sub code will display only a certain sub page.
Input a sub code as follows.

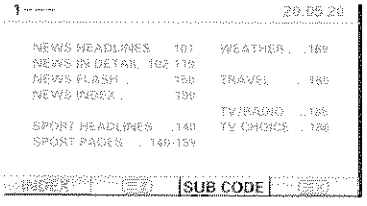
1. Press SUB CODE (yellow button).





2. Input four digits of the sub code using the number buttons of the remote control unit.





⑦ Display cancel

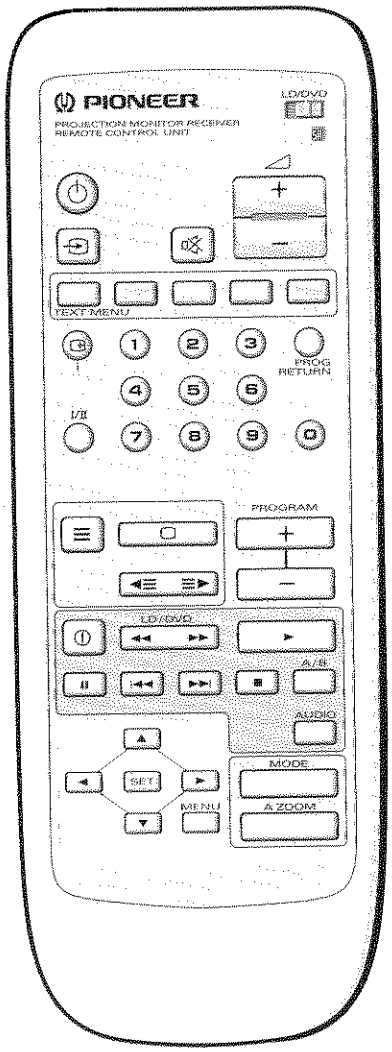
(blue)

Switches to the TV screen with the TELETEXT received.
Press to change the TELETEXT screen into the TV screen.

To return to the TELETEXT screen, press on the remote control unit.

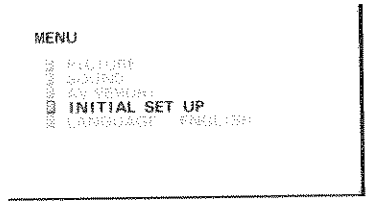
TO CORRECT COLOUR CONVERGENCE DEVIATION CAUSED BY EARTH MAGNETISM

Earth magnetism may cause colour convergence deviation, depending on locations for TV. After setting up the TV, or if colour convergence is deviated, be sure to re-align it more than 30 minutes after turning on the power.
It can be adjusted at the center of the screen using ADJ CENTRE, and near the screen frame using ADJ OUTER POINT.

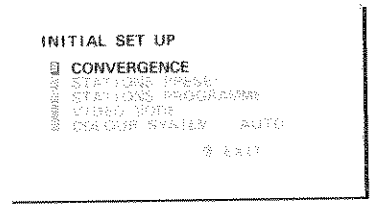


1 Press MENU on the remote control unit.

2 Select "INITIAL SET UP" using ▼, and press SET.

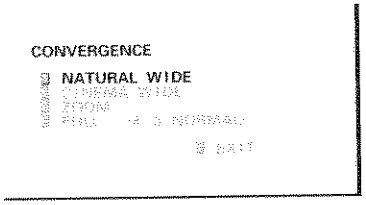


3 Select "CONVERGENCE", and press SET.



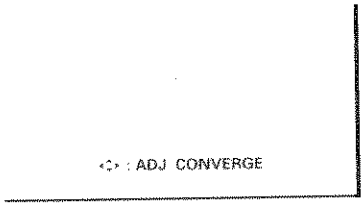
4 Select a screen mode, and press SET.

Adjust in all the four screen modes (NATURAL WIDE, CINEMA WIDE, ZOOM and FULL (4:3 NORMAL)) as shown below.



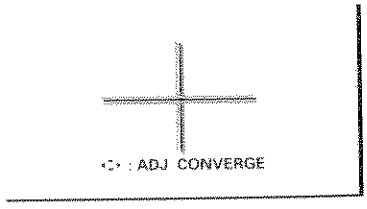
When the zoom mode is selected, an adjustment cross will appear.

When the cross is white



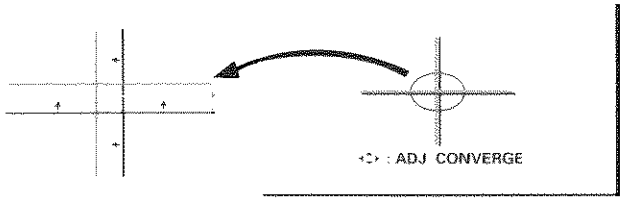
The colour convergence is optimum. Press SET twice, and go to step 9 for ADJ OUTER POINT adjustment.

When the cross is not white, or red or blue lines appear on one side of the white line



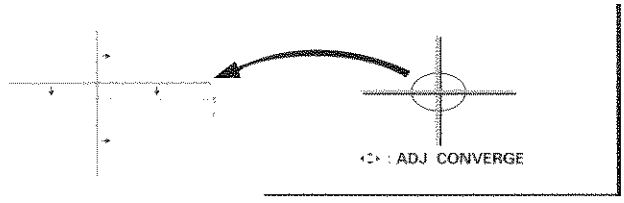
The colour convergence is deviated. Go to step 5, and adjust so that the cross becomes white.

5 Move a red line onto a green line using [◄], [►], [▲] and [▼].



6 Press [SET].

7 Move a blue line to form a white line using [◄], [►], [▲] and [▼].

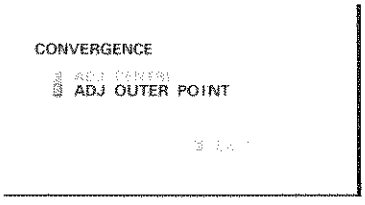


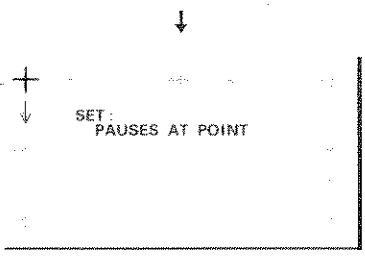
8 Press [SET].

9 Select "ADJ OUTER POINT", and press [SET].

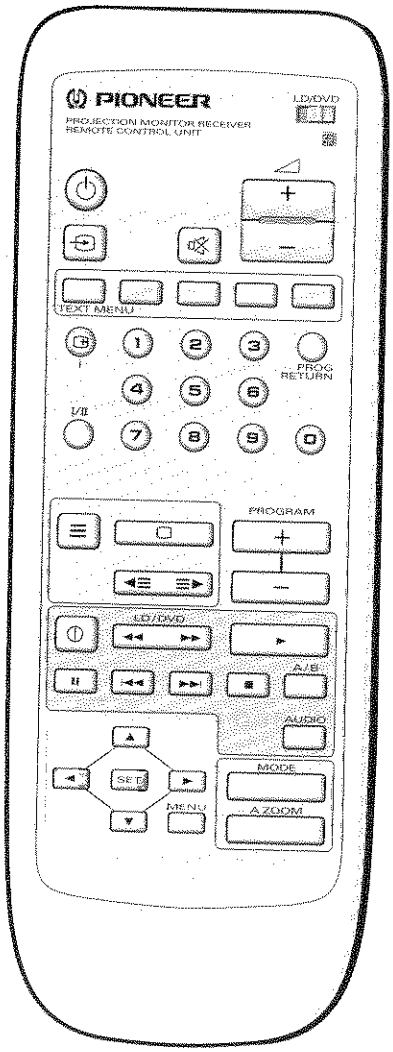
When ADJ OUTER POINT is selected, the convergence near the screen frame can be adjusted.

When ADJ CENTRE is selected, the convergence adjusted at step 4 can be checked again.

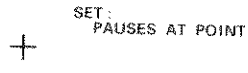




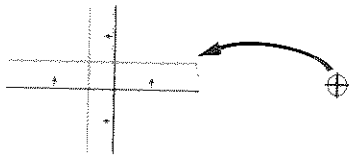
The cross moves after every 4 seconds.



10 When the cross comes to a point to be adjusted, press [SET].

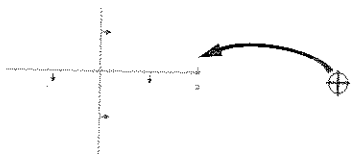


11 Move a red line onto a green line using [◄], [►], [▲] and [▼].



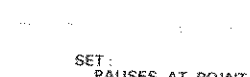
12 Press [SET].

13 Move a blue line to form a white line using [◄], [►], [▲] and [▼].



14 Press [SET].

The cross will start moving again.
Repeat steps 10 to 14 for other points to be adjusted.



15 After adjusting, press [MENU] to turn off the menu.

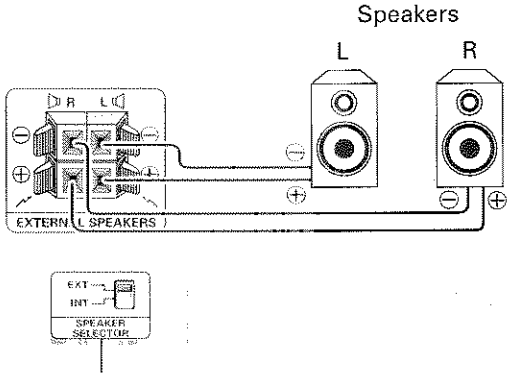
To perform adjustments in other screen modes, repeat steps 1 to 14.

TO CONNECT OTHER EQUIPMENT

To connect external speakers and stereo system

External speaker system

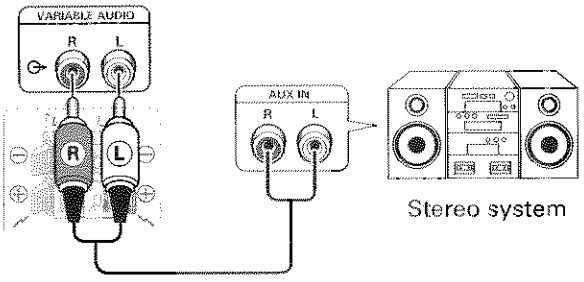
Connect optional external speakers. Before use, switch the SPEAKER SELECTOR switch.



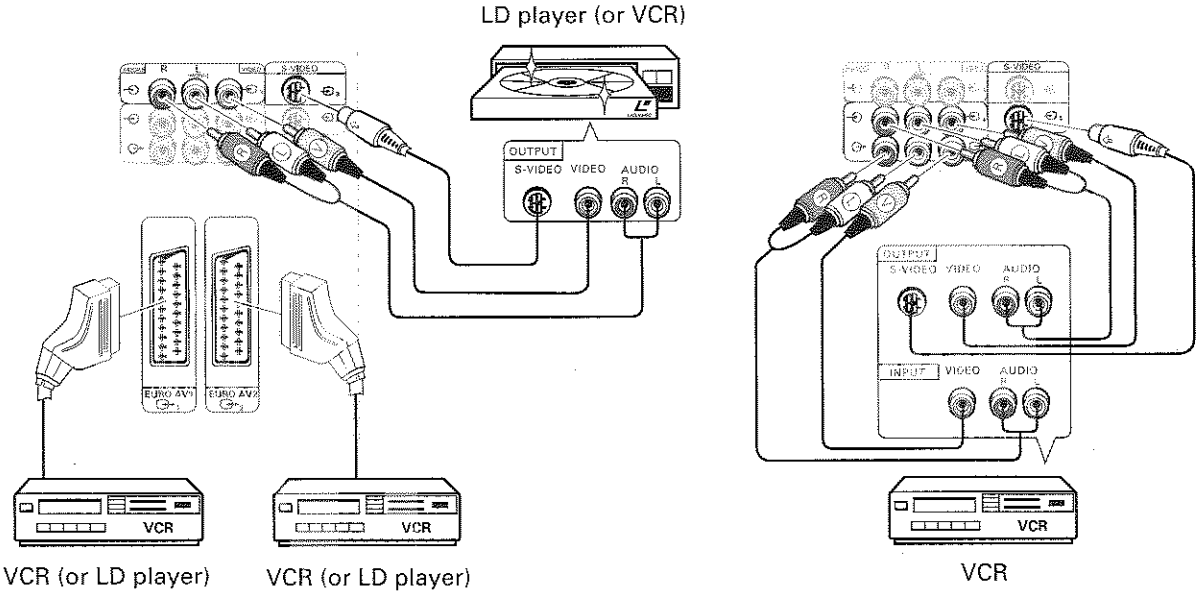
Set this switch to the INT position if you will be listening to the built-in loudspeakers. If you have connected external loudspeakers (or if you will be listening through your stereo system), then you can turn off the built-in loudspeakers by setting the switch to the EXT position.

Stereo system

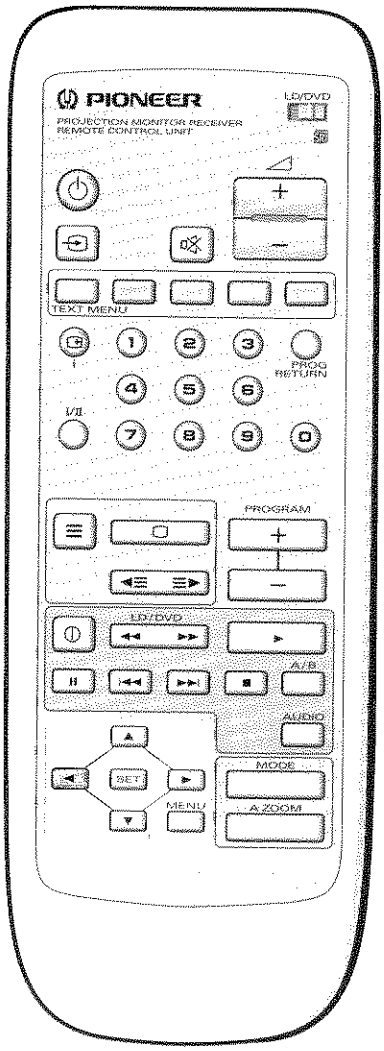
The source selected by the input selector of TV will be reproduced from the speakers of the stereo system.



To connect an LD player and VCR



To set the Video Mode



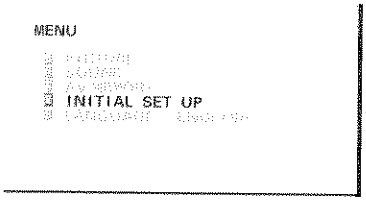
Set the video mode according to the input signal from each connected equipment.
If the video mode is not set properly, the pictures will become monochrome or not be displayed at all.

Input source	VIDEO MODE
AV-1	Switch to S-VIDEO when the input signal is the S-VIDEO signal, switch to RGB when it is the RGB signal, and switch to NORMAL when it is the composite signal.
AV-2	Switch to S-VIDEO when the input signal is the S-VIDEO signal, and switch to NORMAL when it is the composite signal.
AV-3 AV-4	Switch to S-VIDEO when connected to the S-VIDEO input terminal.
AV-F	Switch to NORMAL when connected only to the composite input terminal.

1 Press [⊡] and select one input source from AV-1 to AV-F.

2 Press [MENU] .

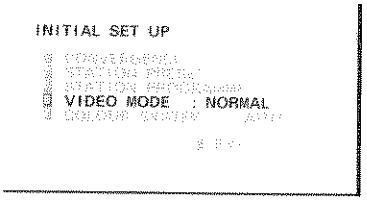
3 Select "INITIAL SET UP" using [▼], and press [SET].



4 Move the cursor to "VIDEO MODE", and press [SET].

Each time [SET] is pressed, the video mode will switch as follows.

NORMAL → S-VIDEO → RGB
(AV-1 only)

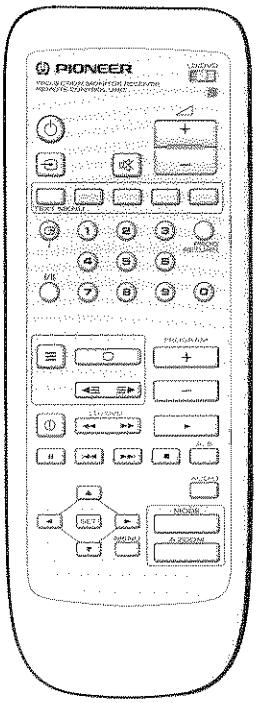


5 Press [MENU] to turn off the menu.

6 Repeat steps 1 to 5, and set the video mode for each equipment.

7 After setting, press [MENU] to turn off the menu.

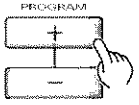
To play back external input source



1 Press [⏎] and select the desired input source.

TV → AV-1 → AV-2 → AV-3 → AV-4 → AV-F (front input)

The desired input source can also be selected using the PROGRAM +/– buttons.



PR1 ↔ PR2 ↔ PR3 ↔ ··· → PR64 ↔ AV-1 ↔ AV-2
↳ AV-F (Front input) ↔ AV-4 ↔ AV-3 ↵

2 Start playing the selected equipment.

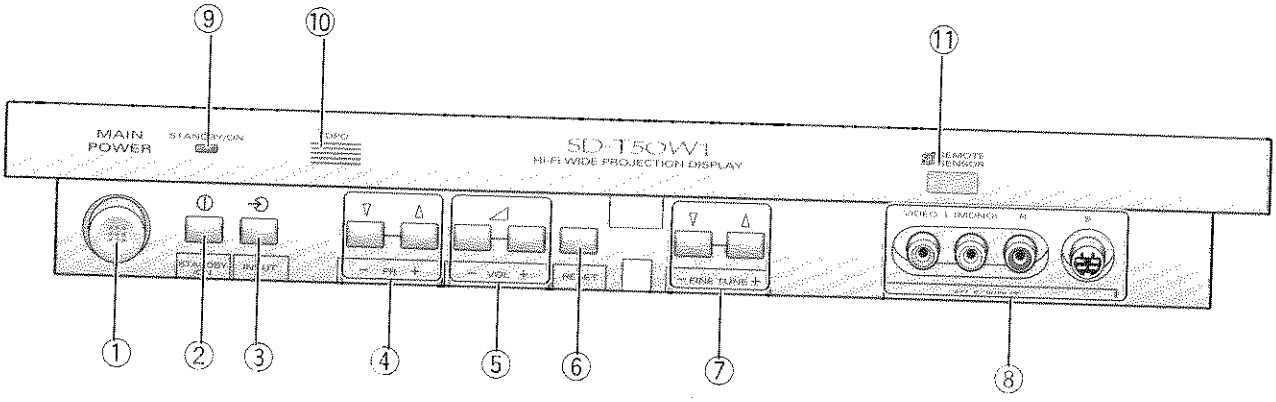
When an LD player or DVD player is a PIONEER product, the basic operations can be controlled with the remote control unit of this TV. (See the Table below.)

NOTE:
When the unit connected to AV-1 starts playing, the input selector switches to AV-1 automatically.

Symbol	Name	Function
LD/DVD	LD/DVD selector switch	: Selects the equipment to be operated. Switch to the desired equipment before operating it with the remote control unit.
⏻	STANDBY/ON button	: Switches the power between STANDBY and ON.
◄◄ ►►	Scan button	: Scans while playing back a disc.
❚❚	Pause button	: Pauses the playback.
⏮ ⏭	Chapter skip button	: When ⏭ is pressed, the unit skips to the head of the next chapter. When ⏮ is pressed, the unit skips to the head of the chapter being played back.
►	Play button	: Starts playback.
■	Stop button	: Stops playback.
A/B	A/B side selector button	: Switches between sides A and B of a disc.
AUDIO	Audio selector button	: Switches the sound for bilingual programs, etc.

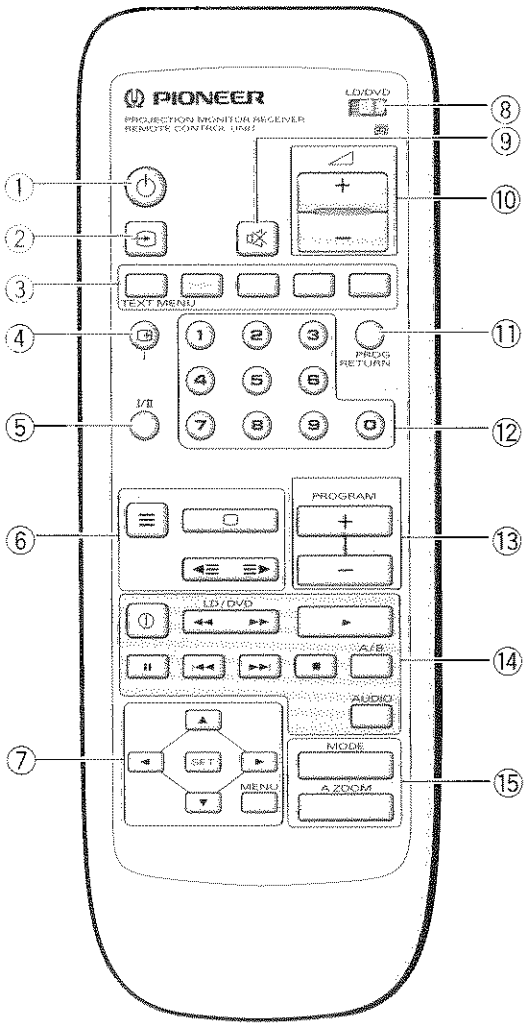
DESCRIPTION OF PARTS

Front panel



No.	Name	Page	Function
①	MAIN POWER switch	11	: Switches the power between STANDBY and OFF.
②	⏻ STANDBY/ON button	12	: Switches the power between ON and STANDBY.
③	⏎ INPUT selector button	37	: Switches input sources.
④	PR (program) selector buttons	16	: Switches program numbers.
⑤	VOL (volume) buttons	16	: Adjust the volume.
⑥	RESET button	41	: Returns to the setting at factory.
⑦	FINE TUNE buttons	16	: Finely adjust (fine tuning) the reception frequency.
⑧	AV-F (Front) INPUT jacks	35	: Used to connect the video camera, etc.
⑨	STANDBY/ON indicator	16	: Displays the power state. (Red: STANDBY Green: ON)
⑩	DPO sensor	21	: Detects the brightness of the room.
⑪	REMOTE SENSOR	11	: Receives the remote control unit signals.

Remote control unit



No.	Name	Page
①	⏻ Standby button	17
②	Input selector button	37
③	TEXT MENU selector buttons	30
④	Information button	17
⑤	I/II sound mode selector button	18
⑥	Teletext operation buttons	28
⑦	Menu operation buttons MENU: Turns on/off the control menu. ◄►▲▼: Moves the cursor on the control menu. SET: Used to execute operations on the control menu and select the mode.	42
⑧	LD/DVD selector switch	37
⑨	Mute button	17
⑩	Volume button	16
⑪	PROG (program) RETURN button	17
⑫	Number buttons	16
⑬	PROGRAM selector buttons	16
⑭	LD/DVD operation buttons	37
⑮	Zoom mode selector buttons	26

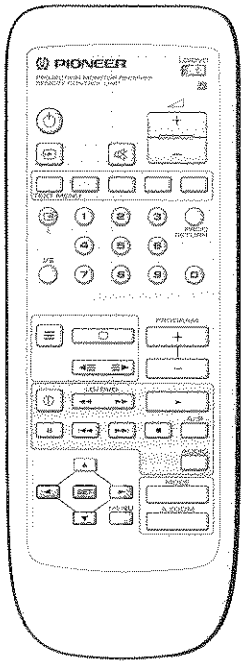
TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause and Correction
No power.	• Is the power plug connected? • Is the MAIN POWER switch on? (See page 11)
Inoperative.	• This may occur due to external effects such as static electricity. Turn OFF the MAIN POWER switch once and turn it ON again, or disconnect the power cord and connect it again after 1 or 2 minutes.
TV programs cannot be received.	• Is the antenna cable connected properly? (See page 10) • Is the antenna cable disconnected or short-circuited? • Have the channels been preset? (See page 13)
No images are displayed.	• Is a VCR or LD player connected properly? (See page 35) • Is the input selector switched to the desired input source? (See page 37)
No sound.	• Is the Mute button ( ) off? (See page 17)
The TV cannot be operated using the remote control unit.	• Is any object blocking signals between the remote control unit and TV? • Have the batteries of the remote control unit run out? • Are the polarities (+, –) of the batteries set correctly?
The picture quality cannot be adjusted.	• Is DPO off? COLOUR, CONTRAST, and BRIGHT cannot be adjusted manually when DPO is ON. (See page 21) • Is SOFT BRIGHT off? When SOFT BRIGHT is ON, CONTRAST cannot be adjusted manually. (See page 25)
The color is funny, the screen is blur or dark, the color is uneven.	• Adjust the picture quality. (See page 20) • The room is too bright. • Perform colour convergence adjustment. (See page 32)

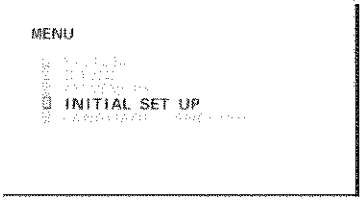
Symptom	Cause and Correction

The reception is poor. Some colors are missing.



- If the colour system is not appropriate, some colours may become missing.
  Set the colour system according to the area where you are using your TV as follows.

1. Press MENU.
2. Select "INITIAL SET UP" using ▼, and press SET.

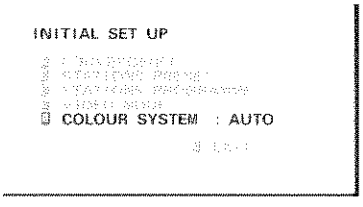


3. Move the cursor to "COLOUR SYSTEM" using ▼, and press SET.

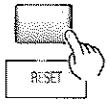
AUTO* → PAL → SECAM → NTSC → 4.43 NTSC

*The color system will automatically be set according to the software.

Normally, it should be set to AUTO.



The image or sound disappears when adjusting the picture or sound quality.



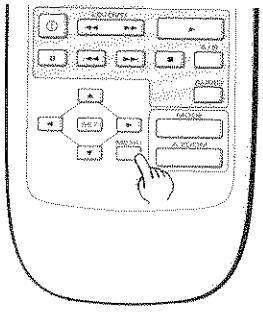
- Press RESET at the front of the TV, to return to the factory settings. Set the settings again.
  The factory settings are as follows.

Screen size : NATURAL WIDE
Volume : Set to 0.
Sound selection : Remains at the last setting.
MENU : off
Teletext : off
Input selector : Set to TV.
PICTURE/SOUND : Parameters, set to 0.
TV Program number : Remains at the last number set.
VNR/DPO/MUTE/SUPER BASS/F. SURROUND : Set to off.

The power is switched off automatically.

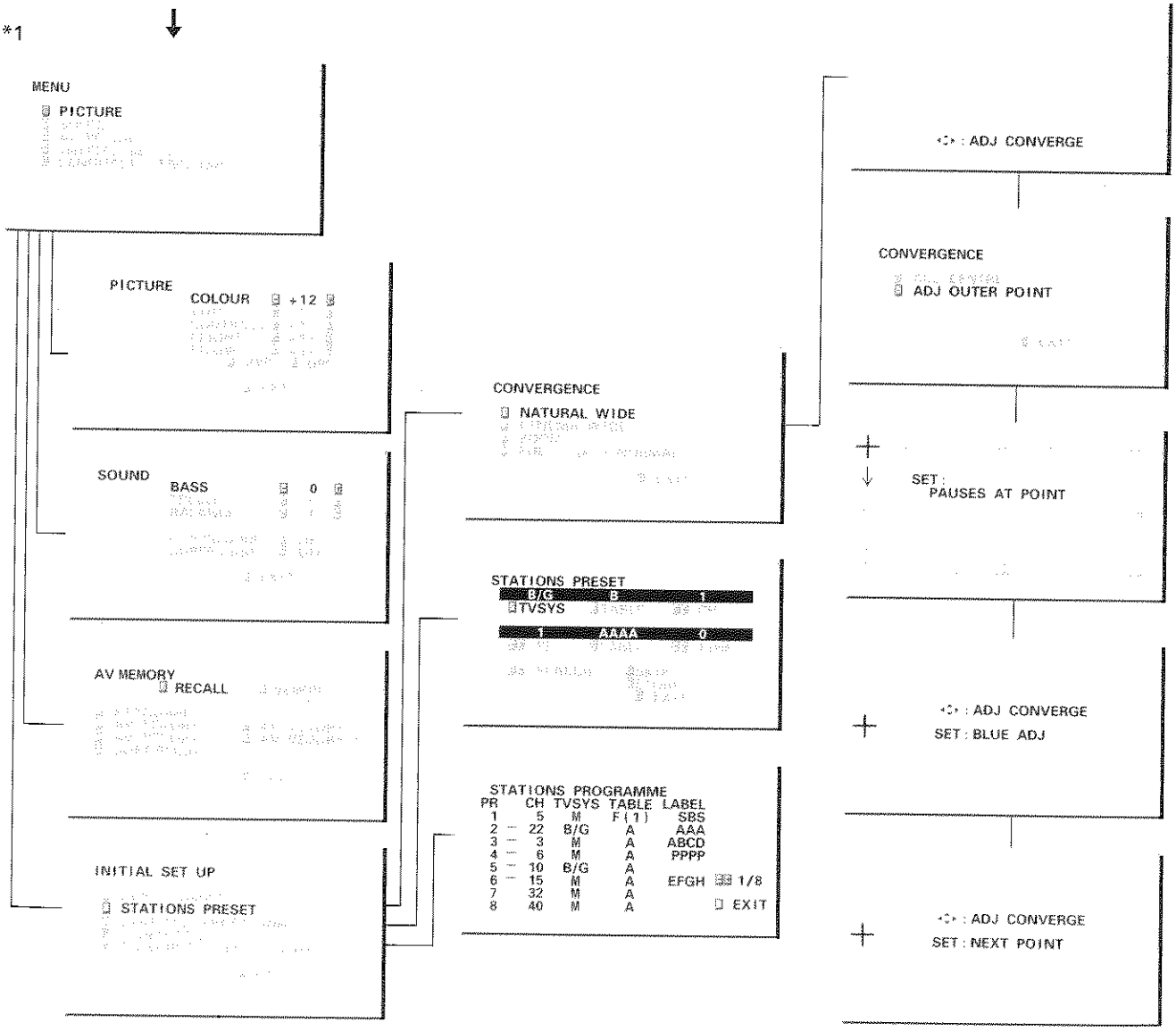
- The TV auto power OFF function has turned on. (See page 17.)

MENU INDEX



- The MENU is pressed, the "MENU" screen (*1) will be displayed.
- Press ▲, ▼, ◄, and ► to select the desired item, and press SET.
- Each operation menu will be disappeared with pressing MENU.
- When "EXIT" in the menu is selected, the menu changes to the previous menu.

*1



TV CHANNEL SELECTION

Table A

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
	1			
2(E2)	2	48.25	B/G	CCIR CATV, Indonesia
3(E3)	3	55.25		
4(E4)	4	62.25		
5(E5)	5	175.25		
6(E6)	6	182.25		
7(E7)	7	189.25		
8(E8)	8	196.25		
9(E9)	9	203.25		
10(E10)	10	210.25		
11(E11)(H1)	11	217.25		Italy
12(E12)(H2)	12	224.25		
A	13	53.75		
B	14	62.25		
C	15	82.25		
D	16	175.25		
E	17	183.75		
F	18	192.25		
G	19	201.25		
H	20	210.25		
21	21	471.25		
22	22	479.25		
23	23	487.25		
24	24	495.25		
25	25	503.25		
26	26	511.25		
27	27	519.25		
28	28	527.25		
29	29	535.25		
30	30	543.25		
31	31	551.25		
32	32	559.25		
33	33	567.25		
34	34	575.25		
35	35	583.25		
36	36	591.25		
37	37	599.25		
38	38	607.25		
39	39	615.25		
40	40	623.25		
41	41	631.25		
42	42	639.25		
43	43	647.25		
44	44	655.25		
45	45	663.25		
46	46	671.25		
47	47	679.25		
48	48	687.25		
49	49	695.25		
50	50	703.25		
51	51	711.25		
52	52	719.25		
53	53	727.25		
54	54	735.25		
55	55	743.25		
56	56	751.25		
57	57	759.25		
58	58	767.25		
59	59	775.25		
60	60	783.25		
61	61	791.25		
62	62	799.25		
63	63	807.25		
64	64	815.25		
65	65	823.25		
66	66	831.25		
67	67	839.25		
68	68	847.25		
69	69	855.25		
70	70	863.25		Hyper

Table B

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
S1	1	105.25	B/G	CCIR CATV Hyper
S2	2	112.25		
S3	3	119.25		
S4	4	126.25		
S5	5	133.25		
S6	6	140.25		
S7	7	147.25		
S8	8	154.25		
S9	9	161.25		
S10	10	168.25		
S11	11	231.25		
S12	12	238.25		
S13	13	245.25		
S14	14	252.25		
S15	15	259.25		
S16	16	266.25		
S17	17	273.25		
S18	18	280.25		
S19	19	287.25		
S20	20	294.25		
S21	21	303.25		
S22	22	311.25		
S23	23	319.25		
S24	24	327.25		
S25	25	335.25		
S26	26	343.25		
S27	27	351.25		
S28	28	359.25		
S29	29	367.25		
S30	30	375.25		
S31	31	383.25		
S32	32	391.25		
S33	33	399.25		
S34	34	407.25		
S35	35	415.25		
S36	36	423.25		
S37	37	431.25		
S38	38	439.25		
S39	39	447.25		
S40	40	455.25		
S41	41	463.25		
S22H	42	319.25		
S24H	43	339.25		
S26H	44	363.25		
S28H	45	387.25		
S30H	46	411.25		
S32H	47	435.25		
S34H	48	459.25		
	49	47.25		Belgium
X	50	69.25		
Y	51	76.25		
Z	52	83.25		
Z+1	53	90.25		
Z+2	54	97.25		
U1	55	226.25		
U2	56	234.25		
U3	57	242.25		
U4	58	250.25		
U5	59	258.25		
	60	49.25		Belgium Cable
	61	56.25		
	62	63.25		
	63	174.25		
	64	190.25		
	65	202.25		
	66	218.25		
M1/7	67	104.25		
M2/7	68	111.25		
M3/7	69	118.25		
M4/7	70	125.25		
M5/7	71	132.25		
M6/7	72	139.25		
M7/7	73	146.25		
M8/7	74	153.25		
M9/7	75	160.25		
M10/7	76	167.25		
M1/8	77	110.25		
M2/8	78	118.25		
M3/8	79	126.25		
M4/8	80	134.25		
M5/8	81	142.25		
M6/8	82	150.25		
M7/8	83	158.25		
M8/8	84	166.25		

Table C (1/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
	1			
2	2	48.25	L	CCIR
3	3	55.25		
4	4	62.25		
5	5	175.25		
6	6	182.25		
7	7	189.25		
8	8	196.25		
9	9	203.25		
10	10	210.25		
11	11	217.25		
12	12	224.25		
	13			
K4	14	176.25	L	French Overseas
K5	15	183.25		
K6	16	191.25		
K7	17	199.25		
K8	18	207.25		
K9	19	215.25		
	20			
21	21	471.25	L	CCIR
22	22	479.25		
23	23	487.25		
24	24	495.25		
25	25	503.25		
26	26	511.25		
27	27	519.25		
28	28	527.25		
29	29	535.25		
30	30	543.25		
31	31	551.25		
32	32	559.25		
33	33	567.25		
34	34	575.25		
35	35	583.25		
36	36	591.25		
37	37	599.25		
38	38	607.25		
39	39	615.25		
40	40	623.25		
41	41	631.25		
42	42	639.25		
43	43	647.25		
44	44	655.25		
45	45	663.25		
46	46	671.25		
47	47	679.25		
48	48	687.25		
49	49	695.25		
50	50	703.25		
51	51	711.25		
52	52	719.25		
53	53	727.25		
54	54	735.25		
55	55	743.25		
56	56	751.25		
57	57	759.25		
58	58	767.25		
59	59	775.25		
60	60	783.25		
61	61	791.25		
62	62	799.25		
63	63	807.25		
64	64	815.25		
65	65	823.25		
66	66	831.25		
67	67	839.25		
68	68	847.25		
69	69	855.25		
	70			
	71			
FB (2)	72	55.75	L'	NEW France, France CATV
FC1 (3)	73	60.50		
FC (4)	74	63.75		
F1 (5)	75	176.00	L	
F2 (6)	76	184.00		
F3 (7)	77	192.00		
F4 (8)	78	200.00		
F5 (9)	79	208.00		
F6 (10)	80	216.00		
B	81	116.75		
C	82	128.75		
D	83	140.75		
E	84	152.75		

Table C (2/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
F	85	164.75	L	France CATV
G	86	176.75		
H	87	188.75		
I	88	200.75		
J	89	212.75		
K	90	224.75		
L	91	236.75		
M	92	248.75		
N	93	260.75		
O	94	272.75		
P	95	284.75		
Q	96	296.75		

Table D

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
A	1	45.75	I	Ireland
B	2	53.75		
C	3	61.75		
D	4	175.25		
E	5	183.25		
F	6	191.25		
G	7	199.25		
H	8	207.25		
J	9	215.25		
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
21	21	471.25	I	U.K.
22	22	479.25		
23	23	487.25		
24	24	495.25		
25	25	503.25		
26	26	511.25		
27	27	519.25		
28	28	527.25		
29	29	535.25		
30	30	543.25		
31	31	551.25		
32	32	559.25		
33	33	567.25		
34	34	575.25		
35	35	583.25		
36	36	591.25		
37	37	599.25		
38	38	607.25		
39	39	615.25		
40	40	623.25		
41	41	631.25		
42	42	639.25		
43	43	647.25		
44	44	655.25		
45	45	663.25		
46	46	671.25		
47	47	679.25		
48	48	687.25		
49	49	695.25		
50	50	703.25		
51	51	711.25		
52	52	719.25		
53	53	727.25		
54	54	735.25		
55	55	743.25		
56	56	751.25		
57	57	759.25		
58	58	767.25		
59	59	775.25		
60	60	783.25		
61	61	791.25		
62	62	799.25		
63	63	807.25		
64	64	815.25		
65	65	823.25		
66	66	831.25		
67	67	839.25		
68	68	847.25		
69	69	855.25		

Table E (1/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
1	1	49.75	D/K	China
2	2	57.75		
3	3	65.75		
4	4	77.25		
5	5	85.25		
6	6	168.25		
7	7	176.25		
8	8	184.25		
9	9	192.25		

Table E (2/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
10	10	200.25	D/K	China
11	11	208.25		
12	12	216.25		
13	13	471.25		
14	14	479.25		
15	15	487.25		
16	16	495.25		
17	17	503.25		
18	18	511.25		
19	19	519.25		
20	20	527.25		
21	21	535.25		
22	22	543.25		
23	23	551.25		
24	24	559.25		
25	25	607.25		
26	26	615.25		
27	27	623.25		
28	28	631.25		
29	29	639.25		
30	30	647.25		
31	31	655.25		
32	32	663.25		
33	33	671.25		
34	34	679.25		
35	35	687.25		
36	36	695.25		
37	37	703.25		
38	38	711.25		
39	39	719.25		
40	40	727.25		
41	41	735.25		
42	42	743.25		
43	43	751.25		
44	44	759.25		
45	45	767.25		
46	46	775.25		
47	47	783.25		
48	48	791.25		
49	49	799.25		
50	50	807.25		
51	51	815.25		
52	52	823.25		
53	53	831.25		
54	54	839.25		
55	55	847.25		
56	56	855.25		
57	57	863.25		
R1	58	49.75		OIRT
R2	59	59.25		
R3	60	77.25		
R4	61	85.25		
R5	62	93.25		
R6	63	175.25		
R7	64	183.25		
R8	65	191.25		
R9	66	199.25		
R10	67	207.25		
R11	68	215.25		
R12	69	223.25		
0	70	46.25	B/G	Australia
1	71	57.25		
2	72	64.25		
3	73	86.25		
4	74	95.25		
5	75	102.25		
5A	76	138.25		
6	77	175.25		
7	78	182.25		
8	79	189.25		
9	80	196.25		
10	81	209.25		
11	82	216.25		
1	83	45.25		New Zealand
2	84	55.25		
3	85	62.25		
4	86	175.25		
5	87	182.25		
6	88	189.25		
7	89	196.25		
8	90	203.25		
9	91	210.25		
10	92	217.25		
11	93	224.25		

Table F (1)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
	1			
2	2	55.25	M	U.S.A.
3	3	61.25		
4	4	67.25		
5	5	77.25		
6	6	83.25		
7	7	175.25		Taiwan
8	8	181.25		
9	9	187.25		
10	10	193.25		
11	11	199.25		
12	12	205.25		
13	13	211.25		
14	14	471.25		
15	15	477.25		
16	16	483.25		
17	17	489.25		
18	18	495.25		
19	19	501.25		
20	20	507.25		
21	21	513.25		
22	22	519.25		
23	23	525.25		
24	24	531.25		
25	25	537.25		
26	26	543.25		
27	27	549.25		
28	28	555.25		
29	29	561.25		
30	30	567.25		
31	31	573.25		
32	32	579.25		
33	33	585.25		Taiwan
34	34	591.25		
35	35	597.25		
36	36	603.25		
37	37	609.25		
38	38	615.25		
39	39	621.25		
40	40	627.25		
41	41	633.25		
42	42	639.25		
43	43	645.25		
44	44	651.25		
45	45	657.25		
46	46	663.25		
47	47	669.25		
48	48	675.25		
49	49	681.25		
50	50	687.25		
51	51	693.25		
52	52	699.25		
53	53	705.25		
54	54	711.25		
55	55	717.25		
56	56	723.25		
57	57	729.25		
58	58	735.25		
59	59	741.25		
60	60	747.25		
61	61	753.25		
62	62	759.25		
63	63	765.25		
64	64	771.25		
65	65	777.25		
66	66	783.25		
67	67	789.25		
68	68	795.25		
69	69	801.25		

Table F (2) (1/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
	1			
2	2	55.25	M	
3	3	61.25		
4	4	67.25		
5	5	77.25		
6	6	83.25		
7	7	175.25		
8	8	181.25		
9	9	187.25		
10	10	193.25		
11	11	199.25		
12	12	205.25		
13	13	211.25		
A	14	121.2625		
B	15	127.2625		
C	16	133.2625		
D	17	139.25		
E	18	145.25		
F	19	151.25		
G	20	157.25		
H	21	163.25		
I	22	169.25		
J	23	217.25		
K	24	223.25		
L	25	229.2625		
M	26	235.2625		
N	27	241.2625		
O	28	247.2625		
P	29	253.2625		
Q	30	259.2625		
R	31	265.2625		
S	32	271.2625		
T	33	277.2625		
U	34	283.2625		
V	35	289.2625		
W	36	295.2625		
W+1	37	301.2625		
W+2	38	307.2625		
W+3	39	313.2625		
W+4	40	319.2625		
W+5	41	325.2625		
W+6	42	331.2750		
W+7	43	337.2625		
W+8	44	343.2625		
W+9	45	349.2625		
W+10	46	355.2625		
W+11	47	361.2625		
W+12	48	367.2625		
W+13	49	373.2625		
W+14	50	379.2625		
W+15	51	385.2625		
W+16	52	391.2625		
W+17	53	397.2625		
W+18	54	403.25		
W+19	55	409.25		
W+20	56	415.25		
W+21	57	421.25		
W+22	58	427.25		
W+23	59	433.25		
W+24	60	439.25		
W+25	61	445.25		
W+26	62	451.25		
W+27	63	457.25		
W+28	64	463.25		
W+29	65	469.25		
W+30	66	475.25		
W+31	67	481.25		
W+32	68	487.25		
W+33	69	493.25		
W+34	70	499.25		
W+35	71	505.25		
W+36	72	511.25		
W+37	73	517.25		
W+38	74	523.25		
W+39	75	529.25		
W+40	76	535.25		
W+41	77	541.25		
W+42	78	547.25		
W+43	79	553.25		
W+44	80	559.25		
W+45	81	565.25		
W+46	82	571.25		
W+47	83	577.25		
W+48	84	583.25		
W+49	85	589.25		

Table F (2) (2/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
W+50	86	595.25	M	
W+51	87	601.25		
W+52	88	607.25		
W+53	89	613.25		
W+54	90	619.25		
W+55	91	625.25		
W+56	92	631.25		
W+57	93	637.25		
W+58	94	643.25		
A–5	95	91.25		
A–4	96	97.25		
A–3	97	103.25		
A–2	98	109.275		
A–1	99	115.275		
W+59	100	649.25		
W+60	101	655.25		
W+61	102	661.25		
W+62	103	667.25		
W+63	104	673.25		
W+64	105	679.25		
W+65	106	685.25		
W+66	107	691.25		
W+67	108	697.25		
W+68	109	703.25		
W+69	110	709.25		
W+70	111	715.25		
W+71	112	721.25		
W+72	113	727.25		
W+73	114	733.25		
W+74	115	739.25		
W+75	116	745.25		
W+76	117	751.25		
W+77	118	757.25		
W+78	119	763.25		
W+79	120	769.25		
W+80	121	775.25		
W+81	122	781.25		
W+82	123	787.25		
W+83	124	793.25		
W+84	125	799.25		

Table F (3) (1/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
4A	1	72.0036	M	
2	2	54.0027		
3	3	60.0030		
4	4	66.0033		
5	5	78.0039		
6	6	84.0042		
7	7	174.0087		
8	8	180.0090		
9	9	186.0093		
10	10	192.0096		
11	11	198.0099		
12	12	204.0102		
13	13	210.0105		
A	14	120.0060		
B	15	126.0063		
C	16	132.0066		
D	17	138.0069		
E	18	144.0072		
F	19	150.0075		
G	20	156.0078		
H	21	162.0081		
I	22	168.0084		
J	23	216.0108		
K	24	222.0111		
L	25	228.0114		
M	26	234.0117		
N	27	240.0120		
O	28	246.0123		
P	29	252.0126		
Q	30	258.0129		
R	31	264.0132		
S	32	270.0135		
T	33	276.0138		
U	34	282.0141		
V	35	288.0144		
W	36	294.0147		
W+1	37	300.0150		
W+2	38	306.0153		
W+3	39	312.0156		

Table F (3) (2/2)

Channel designation	Entry number	Transmission frequency (MHz)	Standard TV system	Remarks
W+4	40	318.0159	M	
W+5	41	324.0162		
W+6	42	330.0165		
W+7	43	336.0168		
W+8	44	342.0171		
W+9	45	348.0174		
W+10	46	354.0177		
W+11	47	360.0180		
W+12	48	366.0183		
W+13	49	372.0186		
W+14	50	378.0189		
W+15	51	384.0192		
W+16	52	390.0195		
W+17	53	396.0198		
W+18	54	402.0201		
W+19	55	408.0204		
W+20	56	414.0207		
W+21	57	420.0210		
W+22	58	426.0213		
W+23	59	432.0216		
W+24	60	438.0219		
W+25	61	444.0222		
W+26	62	450.0225		
W+27	63	456.0228		
W+28	64	462.0231		
W+29	65	468.0234		
W+30	66	474.0237		
W+31	67	480.0240		
W+32	68	486.0243		
W+33	69	492.0246		
W+34	70	498.0249		
W+35	71	504.0252		
W+36	72	510.0255		
W+37	73	516.0258		
W+38	74	522.0261		
W+39	75	528.0264		
W+40	76	534.0267		
W+41	77	540.0270		
W+42	78	546.0273		
W+43	79	552.0276		
W+44	80	558.0279		
W+45	81	564.0282		
W+46	82	570.0285		
W+47	83	576.0288		
W+48	84	582.0291		
W+49	85	588.0294		
W+50	86	594.0297		
W+51	87	600.0300		
W+52	88	606.0303		
W+53	89	612.0306		
W+54	90	618.0309		
W+55	91	624.0312		
W+56	92	630.0315		
W+57	93	636.0318		
W+58	94	642.0321		
A–5	95	90.0045		
A–4	96	96.0048		
A–3	97	102.0051		
A–2	98	108.025		
A–1	99	114.025		
W+59	100	648.0324		
W+60	101	654.0327		
W+61	102	660.0330		
W+62	103	666.0333		
W+63	104	672.0336		
W+64	105	678.0039		
W+65	106	684.0342		
W+66	107	690.0345		
W+67	108	696.0348		
W+68	109	702.0351		
W+69	110	708.0354		
W+70	111	714.0357		
W+71	112	720.0360		
W+72	113	726.0363		
W+73	114	732.0366		
W+74	115	738.0369		
W+75	116	744.0372		
W+76	117	750.0375		
W+77	118	756.0378		
W+78	119	762.0381		
W+79	120	768.0384		
W+80	121	774.0387		
W+81	122	780.0390		
W+82	123	786.0393		
W+83	124	792.0396		
W+84	125	798.0399		

SPECIFICATIONS

Display section

Reception system .. American TV standard NTSC system
Screen size ..... 50" (SD-T50W1/SL)
43" (SD-T43W1/SL)
Aspect ratio 16:9
CRT ..... 7" High focus CRT × 3
Actual viewing angle ..... Horizontal H = 140°
Vertical V = 50°
Input terminals ..... 2 Scarts
(1: with AV output, 1: with TV output)
2 + 1 (Front) AV Cinch
2 + 1 (Front) Y/C plug
Output terminals ..... 1 AV Cinch
1 Variable audio output (Cinch)
Input signal ..... Video signal: 1.0 Vp-p ±3 dB
Input impedance ..... Video input: 75 Ω ±10%
Audio input: 10 kΩ or more
Input signal polarity ..... Synchronized negative
Output terminal signal ratings:
Output terminals ..... Video signal: 1 Vp-p (75 Ω load)
Audio signal: 500 mV rms (100% modulation)
Output impedance ..... Video output: 75 Ω ±10%
Audio output: Less than 1 kΩ

Tuner section

Circuit type ..... Video signal detection:
PLL detection
PLL Digital Synthesizer system
Audio multiplex: ..... NICAM, MTS,
GERMAN ANALOG 2 CARRIER

Reception channels

NTSC:

US VHF:	CH2-CH13	UHF:	CH14-CH69
US CATV STD:	CH2-W+84	US CATV HRC:	CH1-W+84
Taiwan VHF:	CH7-CH13	Taiwan UHF:	CH33-CH48

PAL/SECAM:

CCIR VHF:	CH2-CH12	UHF:	CH21-CH69
CCIR CATV:	E2-E12, S1-S41, S22H-S34H		
Belgium:	U1-U5, M1/7-M10/7, M1/8-M8/8, X-Z+2		
France:	FB-FC, F1-F6, K4-K9, B-Q		
Italy:	A-H2	New Zealand:	CH1-CH11
OIRT:	R1-R12	China:	CH1-CH57
Australia:	CH0-CH11	Ireland:	A-J
UK:	CH21-CH69		

Antenna terminal ..... ANTENNA terminal,
TV coaxial 75 Ω UNBAL

Electrical section, miscellaneous

Power requirements
..... AC 110/120-127/220-230/240 V, 50/60 Hz
Power consumption ..... 330 W
External dimensions
..... 1,240 (W) × 615 (D) × 1,215 (H) mm (SD-T50W1/SL)
..... 1,092 (W) × 529 (D) × 1,172 (H) mm (SD-T43W1/SL)
Weight of main unit ..... 90 kg (SD-T50W1/SL)
..... 71 kg (SD-T43W1/SL)

Amplifier section

Tone control ..... BASS, TREBLE
Built-in speaker system ..... 50 inch 12cm × 2, 6 cm × 2
43 inch 12 cm × 2
External speaker impedance ..... 8-16 Ω

Wireless remote control unit

Operation system: Infrared remote control system
Power source: Two AAA/R03 1.5 V dry cell batteries

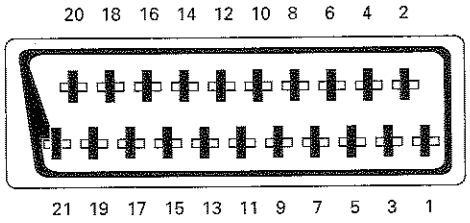
Accessories

Operating instructions 1
Remote control unit 1
AAA/R03 dry cell batteries 2
Power cords 2
Caster pedestals 4
VCR fixed band (SD-T43W1/SL only) 1

NOTE:

Specifications and design are subject to possible modifications without notice due to improvements.

Assignment of connections for EURO-AV sockets



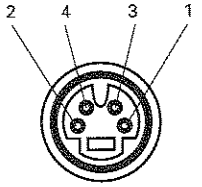
EURO-AV1

1 Audio output B
2 Audio input B
3 Audio output A
4 Audio ground
5 Blue ground
6 Audio input A
7 Blue
8 Switching voltage
9 Green ground
10 –
11 Green
12 –
13 Red ground
14 –
15 Red or chroma signal with S-Video
16 Blanking signal
17 Video output ground
18 Video input ground
19 Video output
20 Video input or luminance with S-Video
21 Screening or ground

EURO-AV2

1 Audio output B
2 Audio input B
3 Audio output A
4 Audio ground
5 –
6 Audio input A
7 –
8 –
9 –
10 –
11 –
12 –
13 –
14 –
15 Chroma signal with S-Video
16 –
17 Video output ground
18 Video input ground
19 Video output
20 Video input or luminance with S-Video
21 Screening or ground

Assignment of connections for S-VIDEO socket



1 Ground
2 Ground
3 Luminance
4 Chroma signal

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